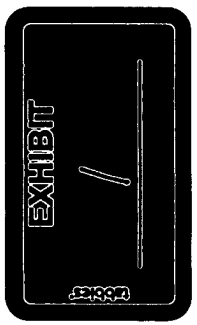


R R R Referrals, Reports and Resources:

A Database Application for OPOs

Presented by:
Kathy Pizzolato, RN, CPTC
SEOPF Information Technology Seminar
March 20, 2003

LOPA

Overview

- Call Center.
- Referral, Recipient and Donor medical record management.
- UNOS Interface and Placement management.
- Donor Registry and DMV Interface.
- Management modules include system security, human resources, hospital database, and lookup tables.
- Quality Assurance including audit trails.
- Customizable Crystal Reporting system.

System Software

- Oracle database platform.
- Entirely web-browser based.
- Written in PLSQL, HTML, Crystal and Java Script allowing for a wide variety of software contractors to work on system.
- No downloads or installations to operate.
- Runs just like a website.

Design

- System was conceived by a coordinator and Director of Recovery.
- LOPA has expended considerable resources over the past three years in development.
- Design provides for total management of the donation process and the OPO.
- New modules are relatively easy to add - presently designing staff scheduling, UNET, hospital development and quality assurance.

Call Center

- Provides a system for non-OPO personnel to take referral calls and initiate the donation process.
- Automates function of determining tissue and eye rule outs. Provides for rapid information flow to coordinators on organ eligible referrals.
- Call Center feeds data into the main R^3 database for use with the donation and referral process.
- Designed to function in a streamlined fashion predominantly using keystrokes and tabs.
- Also functions as message system and log.

Data Management

- Provides for complete control and management of referral, donor and recipient records.
- Coordinators and technicians can begin and complete paperwork in the field.
- Data may be updated from any location with Internet access.
- Electronic records can be reviewed by Transplant Centers.
- Maintains contact and contract information for all hospitals, transplant centers, eye banks, etc.
- Provides complete QA trail for each record.

Security and Management

- Provides a system for 'top down' management of security and access.
- Levels of access are fully controlled and designed by system administrator.
- All security settings and look up table values are controlled and managed by the system administrator.
- ED 'panic button' locks down system.
- Oracle® is famous for rock solid security - no security holes or patches.

Other Features

- Letters to donor families, hospital staff, etc. are automatically generated.
- Ability to add attachments to records.
- Correspondence Log for Family Services communication.

Reporting

- Use either Crystal Enterprise® reporting system or basic Crystal Reports.
- Basic reports come with the package.
- System can provide any number of set reports and provides a system for simple development of customizable reports.
- Crystal is recognized as the leading report software company in the world.

Quality Assurance

- System provides a full record of each entry to a file including time, date and user.
- Designed to comply with the requirements of both HIPAA and FDA (part 11).
- Rule out criteria is managed by system administrator to accommodate specific tissue agencies and eye banks.
- Provides for locking of records once QA accepted.

Advantages

- Scalable system allows for easy addition of modules and growth of users and data.
- Can be customized by the OPO to meet specific needs.

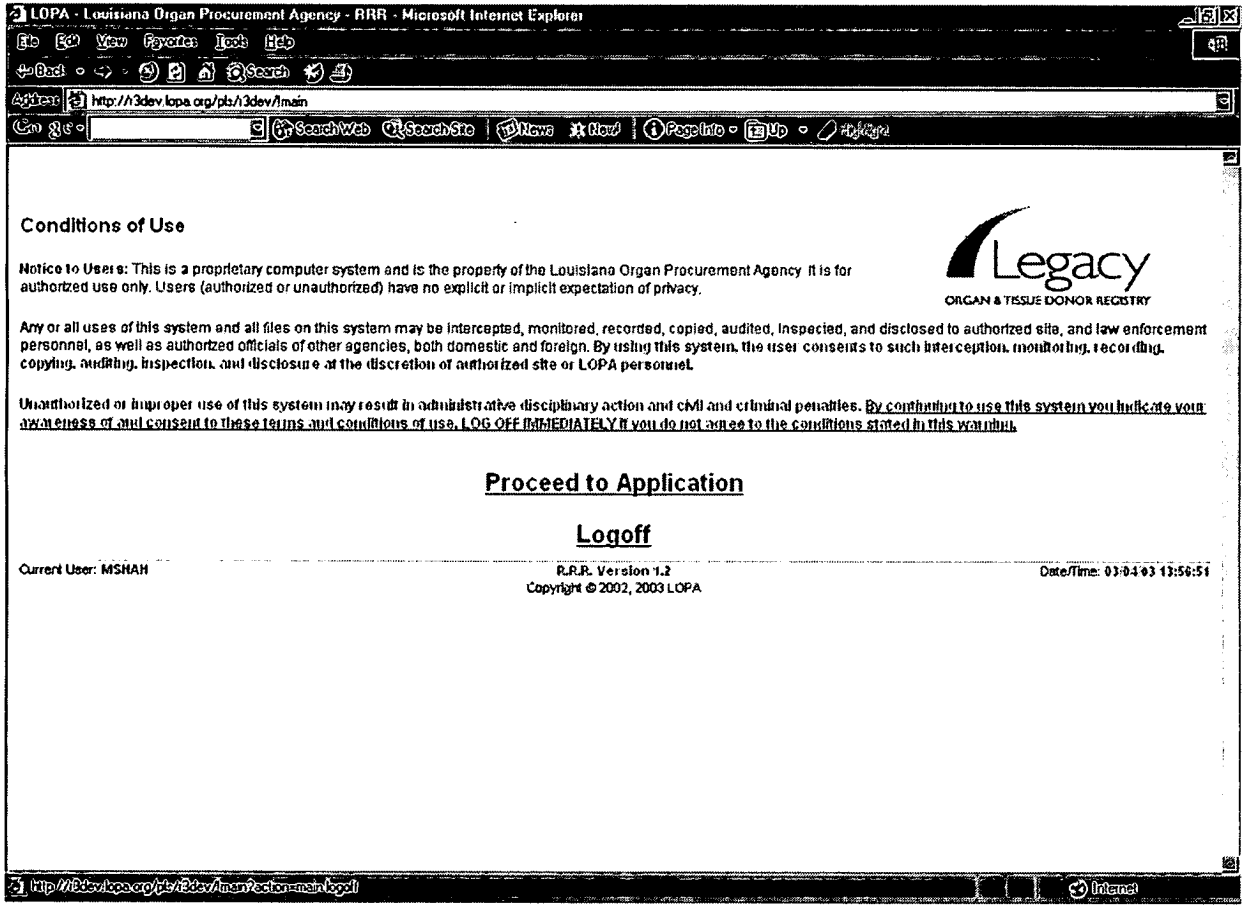
Options

- Available as a stand alone customizable application to run on independent server systems.
- Potentially a hosted solution (shared cost of software design, Oracle® and Crystal® licensing). This still allows for customization of look and feel and look up tables while providing a completely separate database for each OPO.

Secure Communications

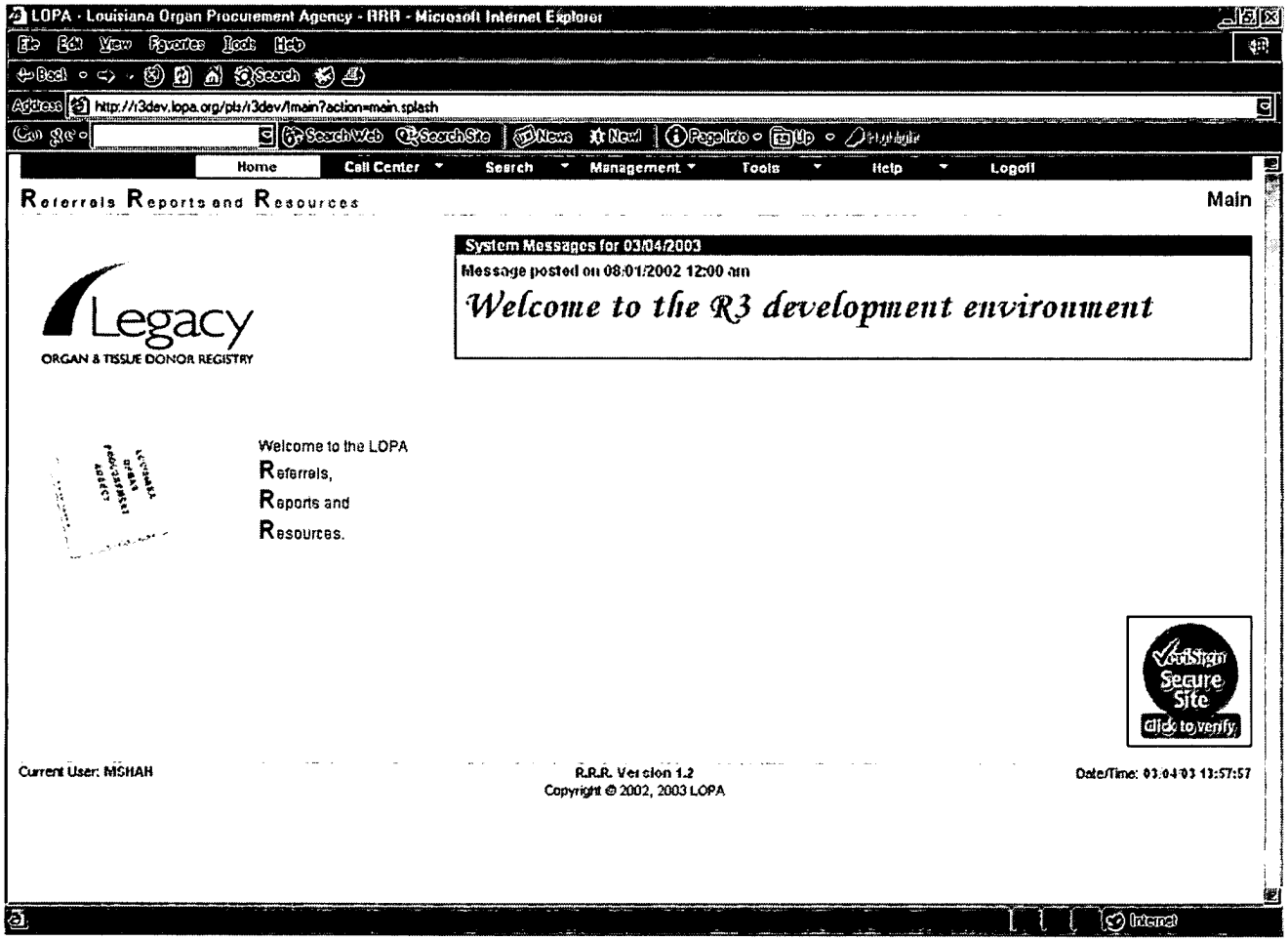
LOPA

Initial Logon Screen


LOPA - Louisiana Organ Procurement Agency - RRR - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search
Address http://3dev.lopa.org/pls/i3dev/!main
Search Web Search Site News Now! Page Info Up
Conditions of Use
Notice to Users: This is a proprietary computer system and is the property of the Louisiana Organ Procurement Agency. It is for authorized use only. Users (authorized or unauthorized) have no explicit or implicit expectation of privacy.
Legacy
ORGAN & TISSUE DONOR REGISTRY
Any or all uses of this system and all files on this system may be intercepted, monitored, recorded, copied, audited, inspected, and disclosed to authorized site, and law enforcement personnel, as well as authorized officials of other agencies, both domestic and foreign. By using this system, the user consents to such interception, monitoring, recording, copying, auditing, inspection, and disclosure at the discretion of authorized site or LOPA personnel.
Unauthorized or improper use of this system may result in administrative disciplinary action and civil and criminal penalties. By continuing to use this system you indicate your awareness of and consent to these terms and conditions of use. LOG OFF IMMEDIATELY if you do not agree to the conditions stated in this warning.
Proceed to Application
Logoff
Current User: MSHAH
R.R.R. Version 1.2
Copyright © 2002, 2003 LOPA
Date/Time: 03/04/03 13:56:51
Internet

LOPA

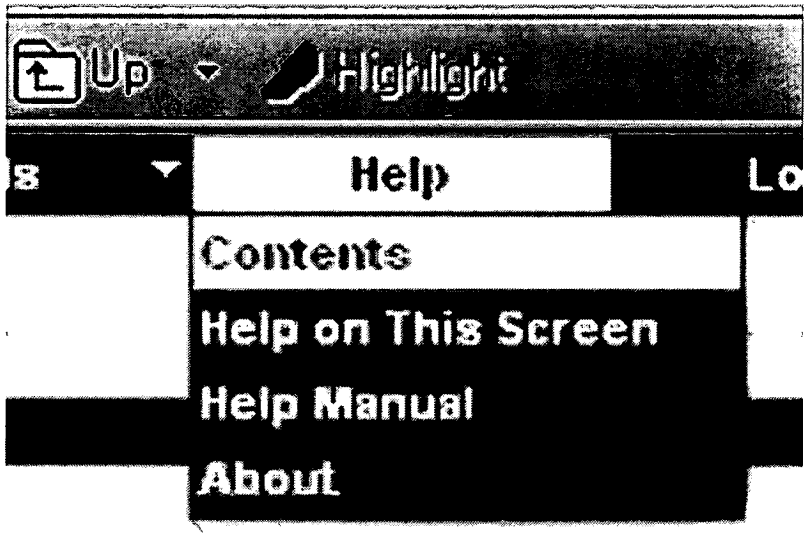
Main Menu


LOPA - Louisiana Organ Procurement Agency - RRR - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search
Address http://r3dev.lopa.org/pls/r3dev/!main?action=main.splash
Search Web Search Site News New! Page Info Up
Home
Call Center
Search
Management
Tools
Help
Logoff
Referrals Reports and Resources
Main
System Messages for 03/04/2003
Message posted on 08/01/2002 12:00 am
Welcome to the R3 development environment
Legacy
ORGAN & TISSUE DONOR REGISTRY
Welcome to the LOPA
Referrals,
Reports and
Resources.
VeriSign Secure Site
Click to verify
Current User: MSHAH
R.R.R. Version 1.2
Copyright © 2002, 2003 LOPA
Date/Time: 03/04/03 13:57:57
Internet

Tools Menu

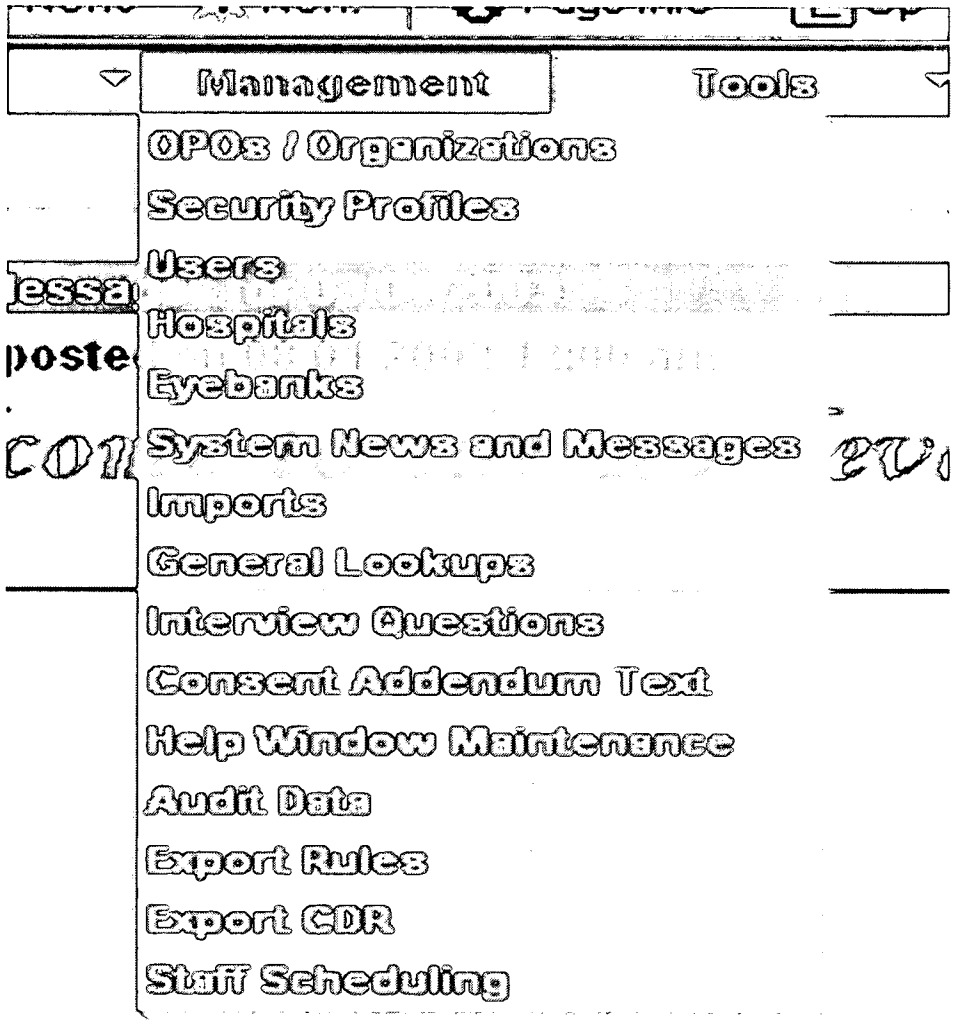
LOPA

Help Menu



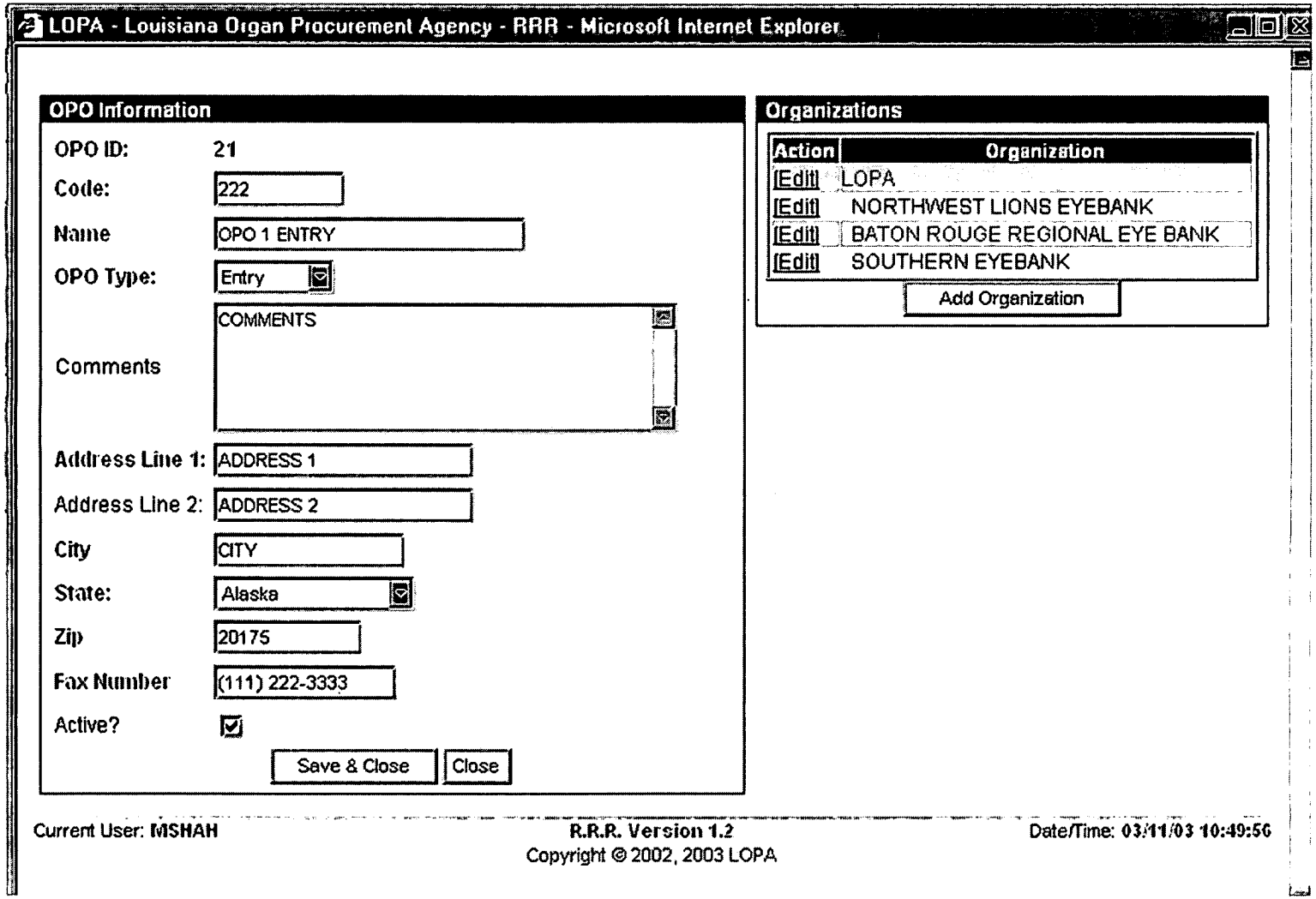
LOPA

Management Menu



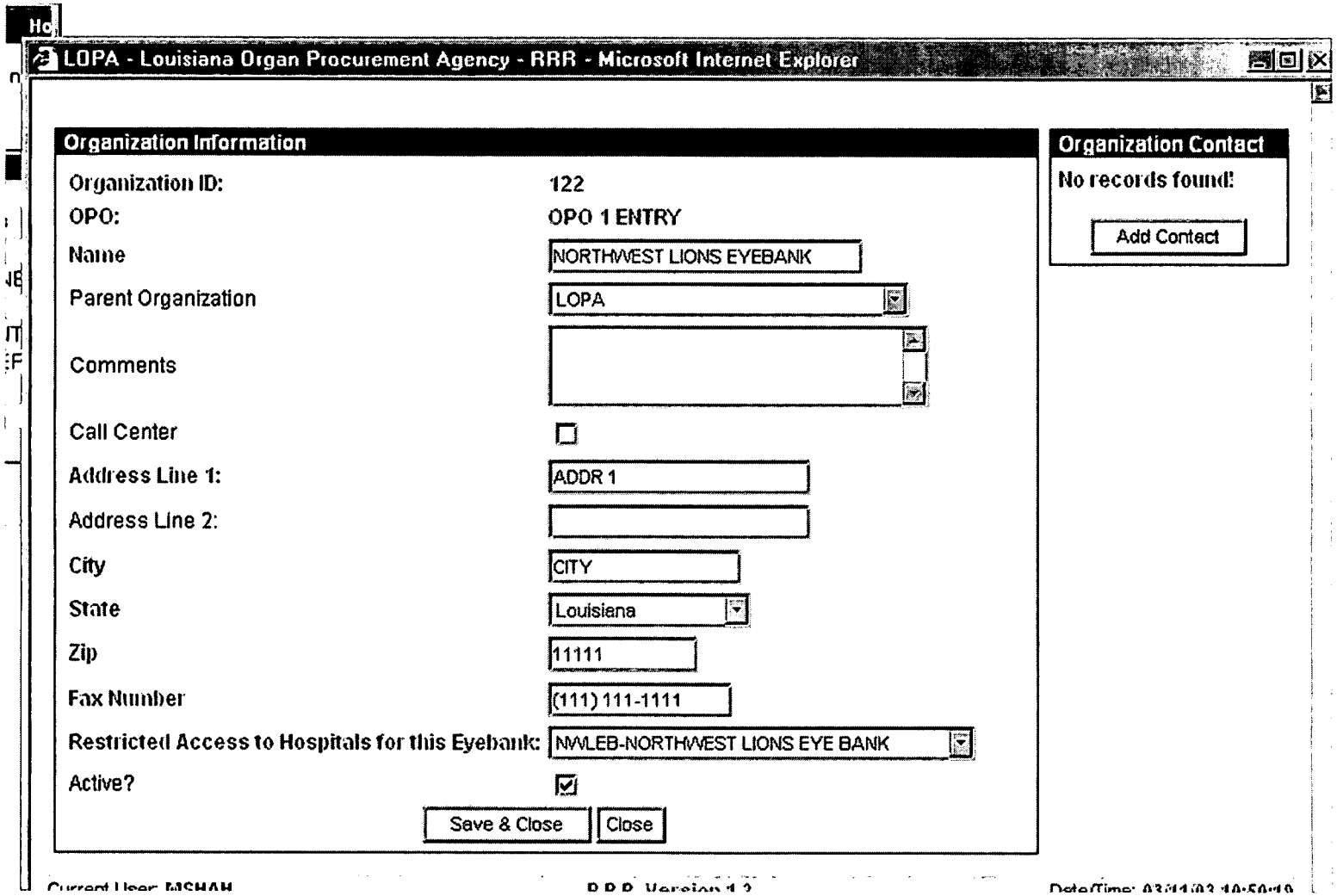
LOPA

Management: OPO



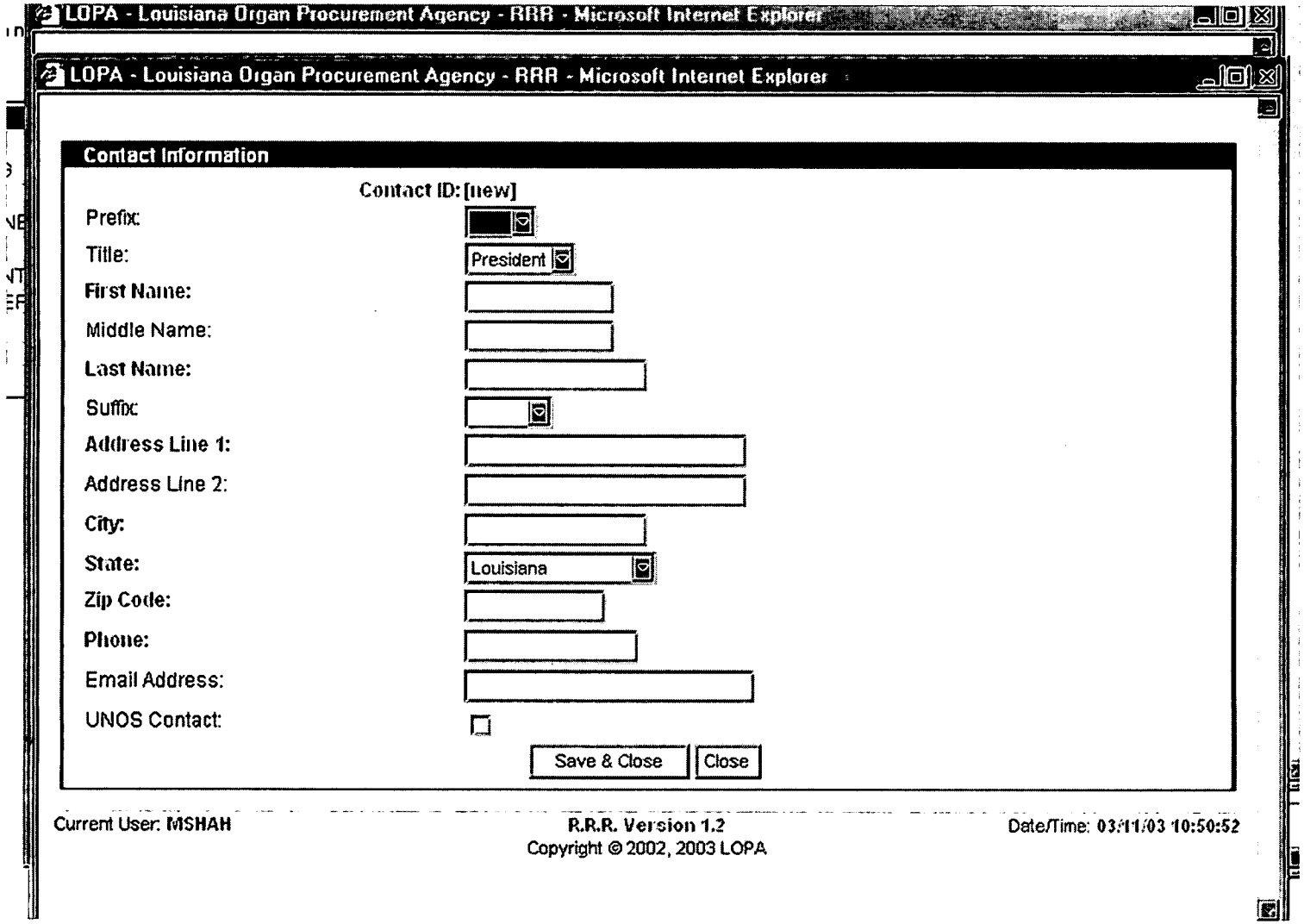
LOPA

Management: Organization



LOPA

Management: Organization Contact



Management: Security Profiles

Rows 1 - 14 of 14

Action	Name	OPO Name	Comments
[Edit]	ADMIN	OPO 1 ENTRY	ADMIN SYSTEM PROFILE
[Edit]	CALL CENTER - READ ONLY	OPO 1 ENTRY	
[Edit]	CALL CENTER - WRITE	OPO 1 ENTRY	
[Edit]	DELETE FOR FILE ATTACHMENTS	LOPA	
[Edit]	EYEBANK	OPO 1 ENTRY	EYEBANK READ ONLY PROFILE. USED IN CONJUNCTION WITH THE RESTRICTED EYEBANK FIELD ON THE ORGANIZATION TABLE
[Edit]	JUNK	LOPA	
[Edit]	MANAGEMENT - READ ONLY	OPO 1 ENTRY	
[Edit]	OMV REGISTRY SEARCH AND UPDATE	LOPA	OMV REGISTRY SEARCH AND UPDATE
[Edit]	REFERRAL - READ ONLY	OPO 1 ENTRY	
[Edit]	REFERRAL - WRITE	OPO 1 ENTRY	
[Edit]	SCHEDULE - READ ONLY	OPO 1 ENTRY	
[Edit]	SECTEST	OPO 1 ENTRY	PROFILE FOR TESTING SECURITY ALONG WITH THE SECTEST USER ID
[Edit]	UNET INTERFACE	LOPA	SCREENS FOR CREATING CDR EXPORTS AND MAINTAINING EXPORT RULES SETS.
[Edit]	UNOS	OPO 1 ENTRY	

Add New Profile

Current User: MSHAH

R.R.R. Version 1.2

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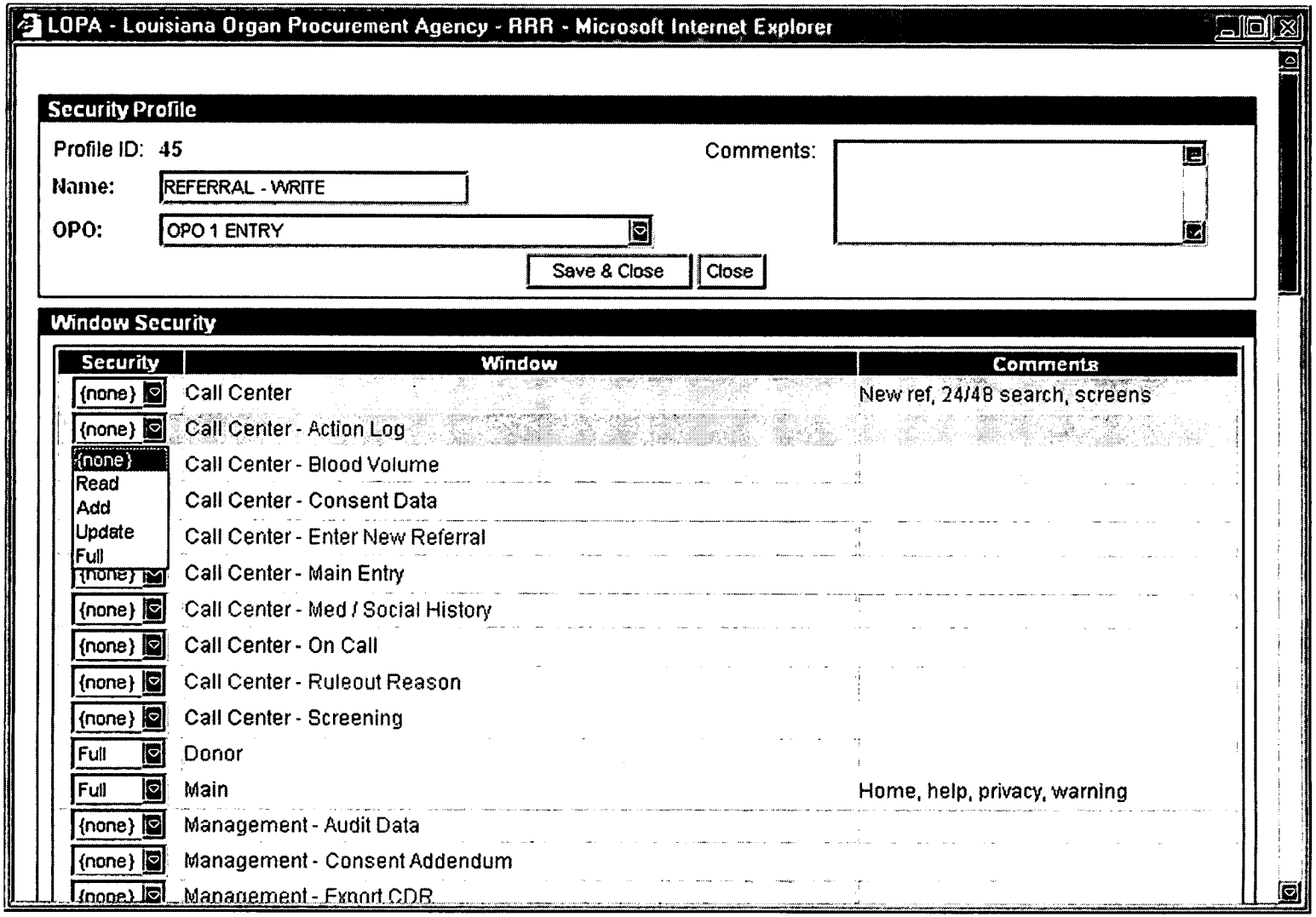
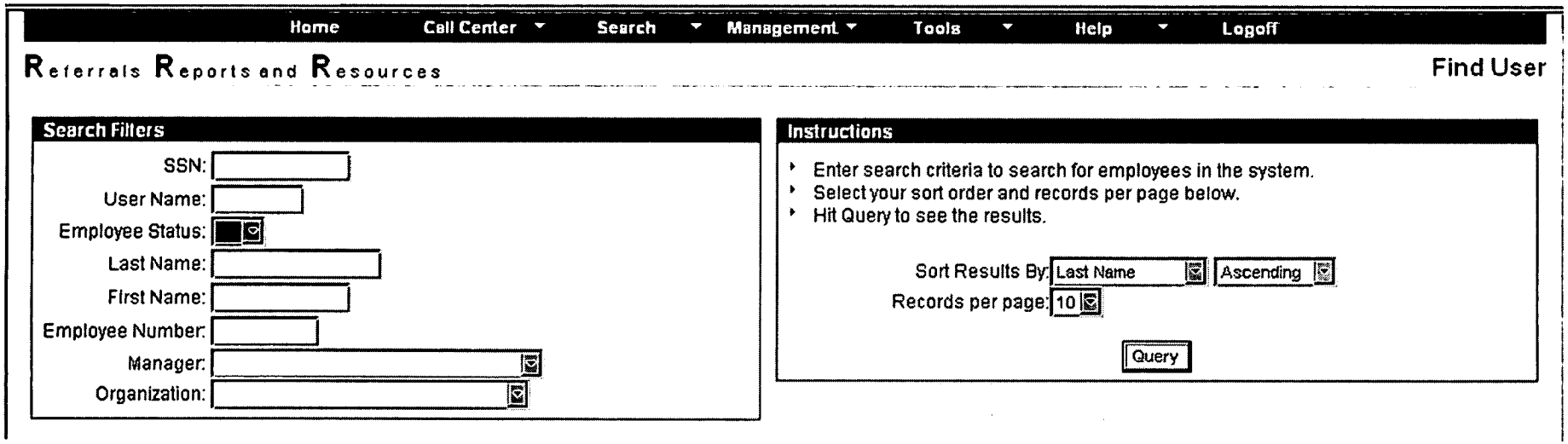
Date/Time: 03/11/0

Management: Security Profiles – Edit Profile



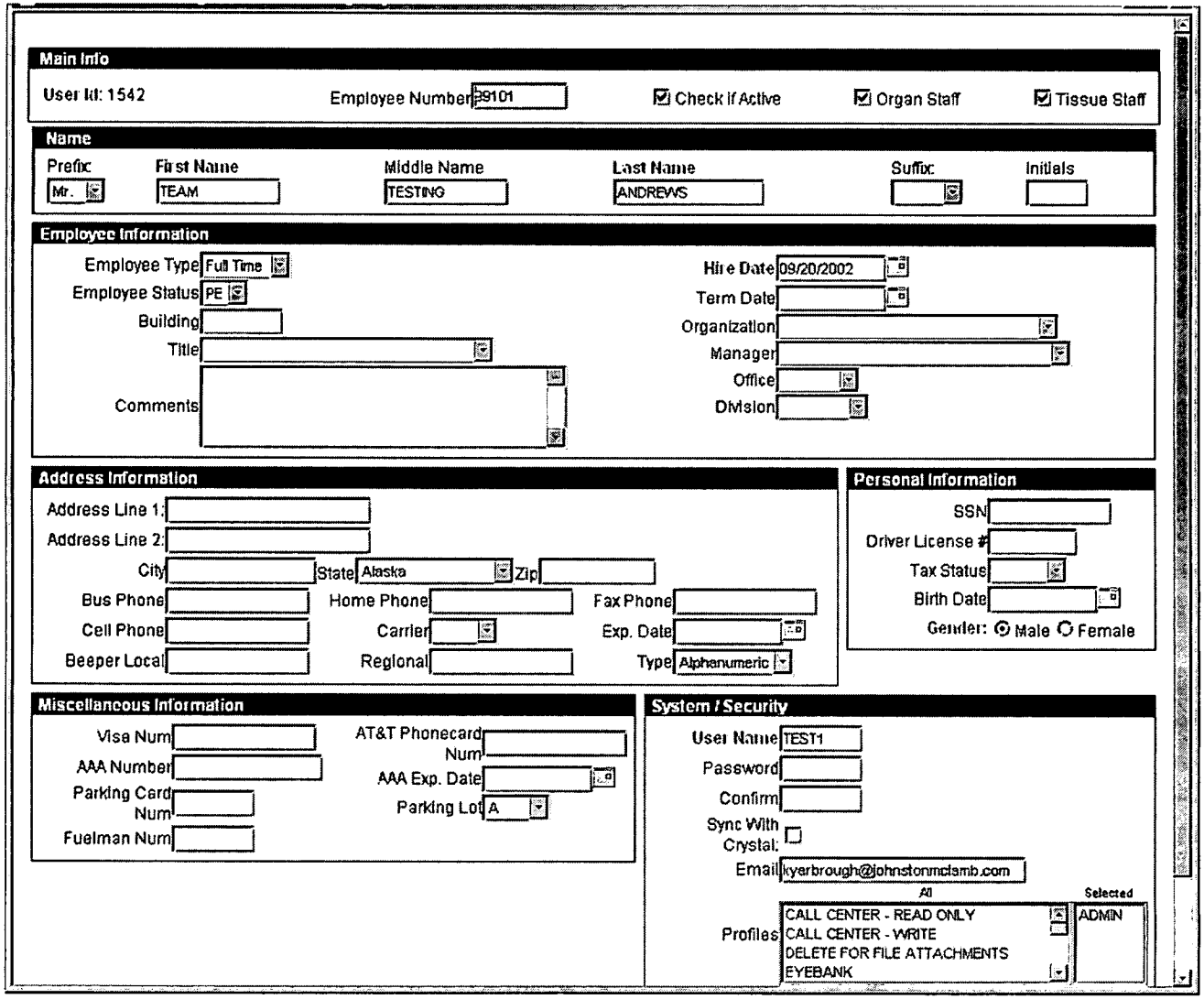
LOPA

Management: Users



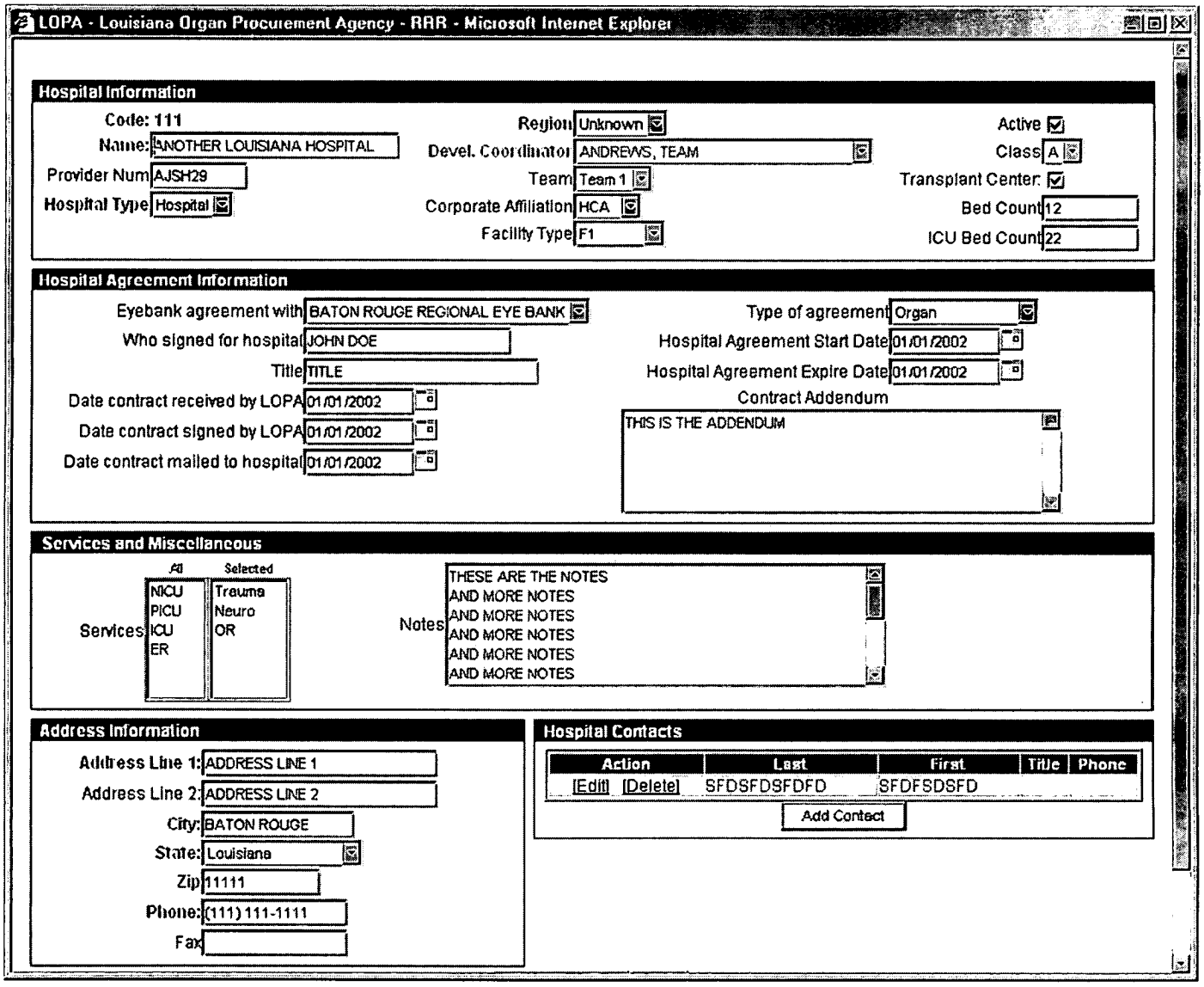
LOPA

Management: Users – Add/Edit



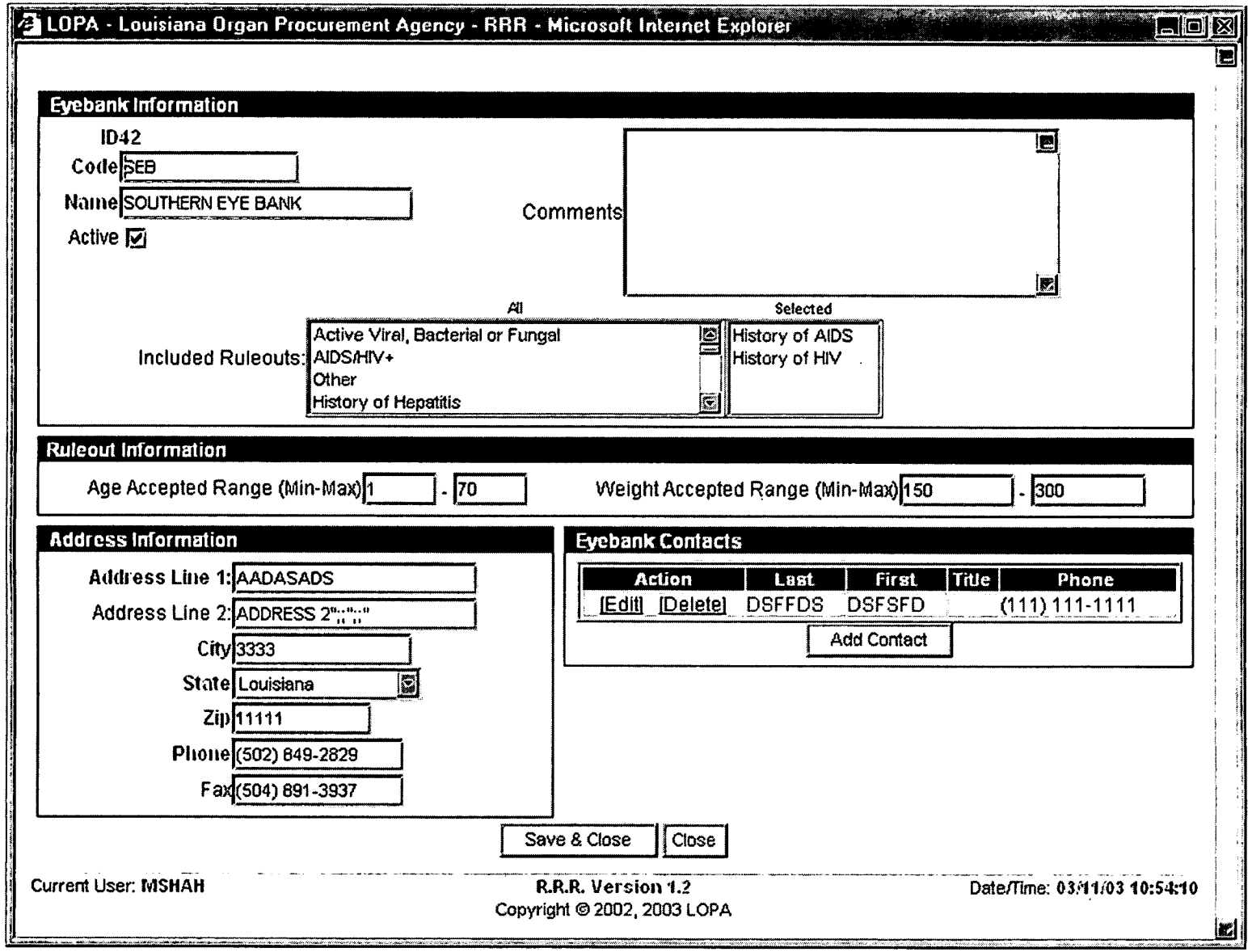
LOPA

Management: Edit Hospital



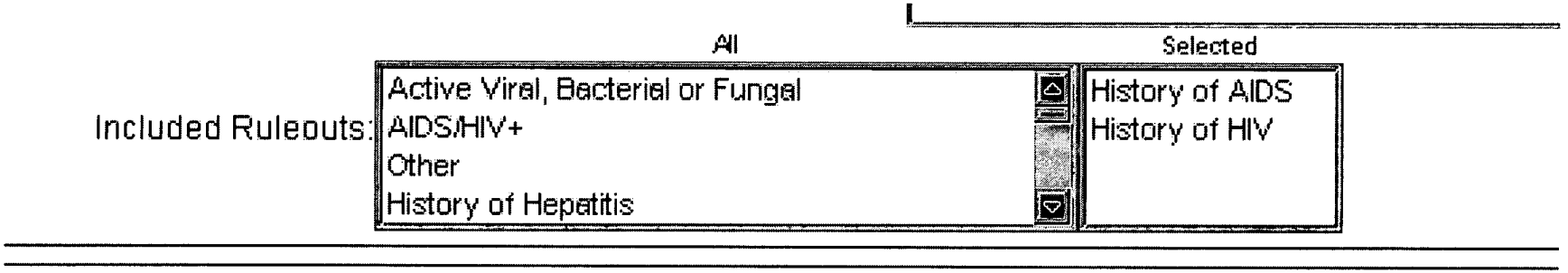
LOPA

Management: Edit Eyebank



LOPA

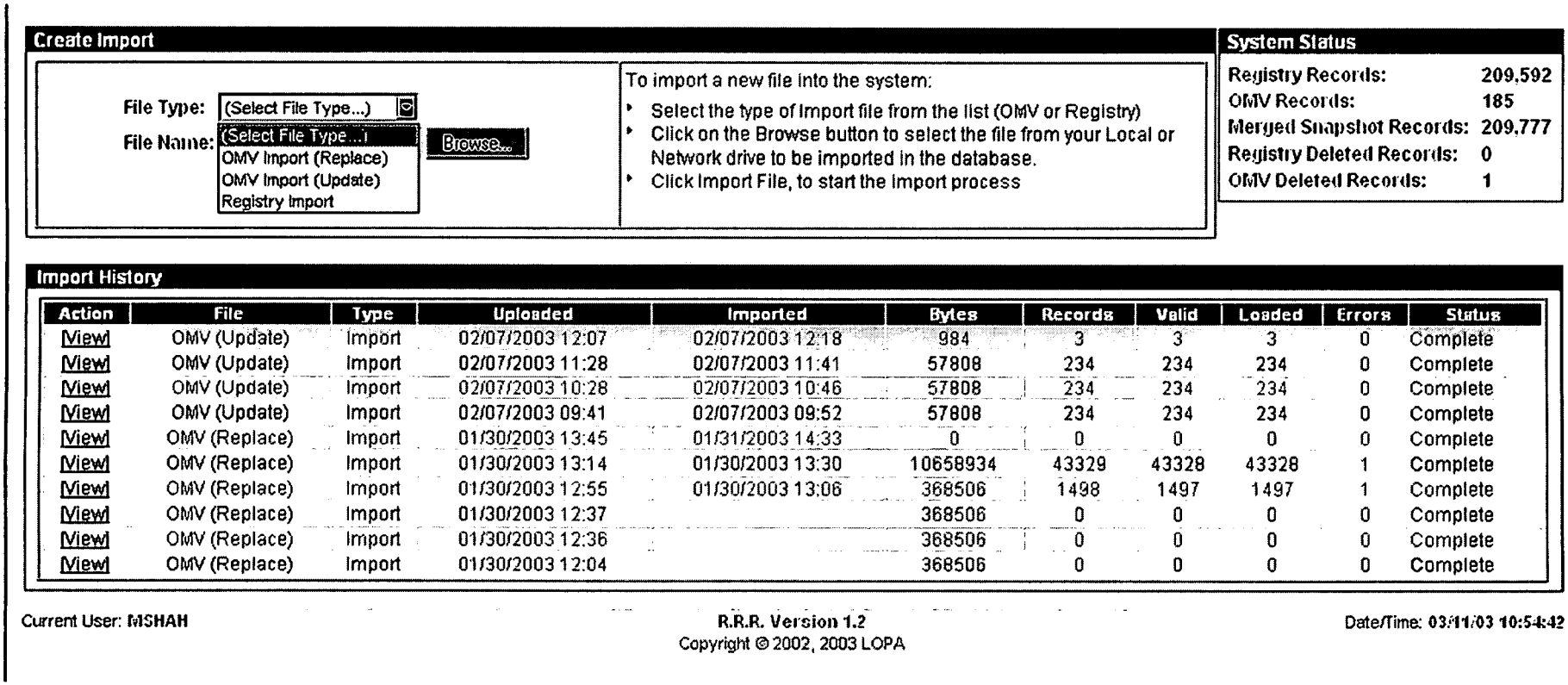
Management: Eyebank – Eyebank Ruleouts



LOPA

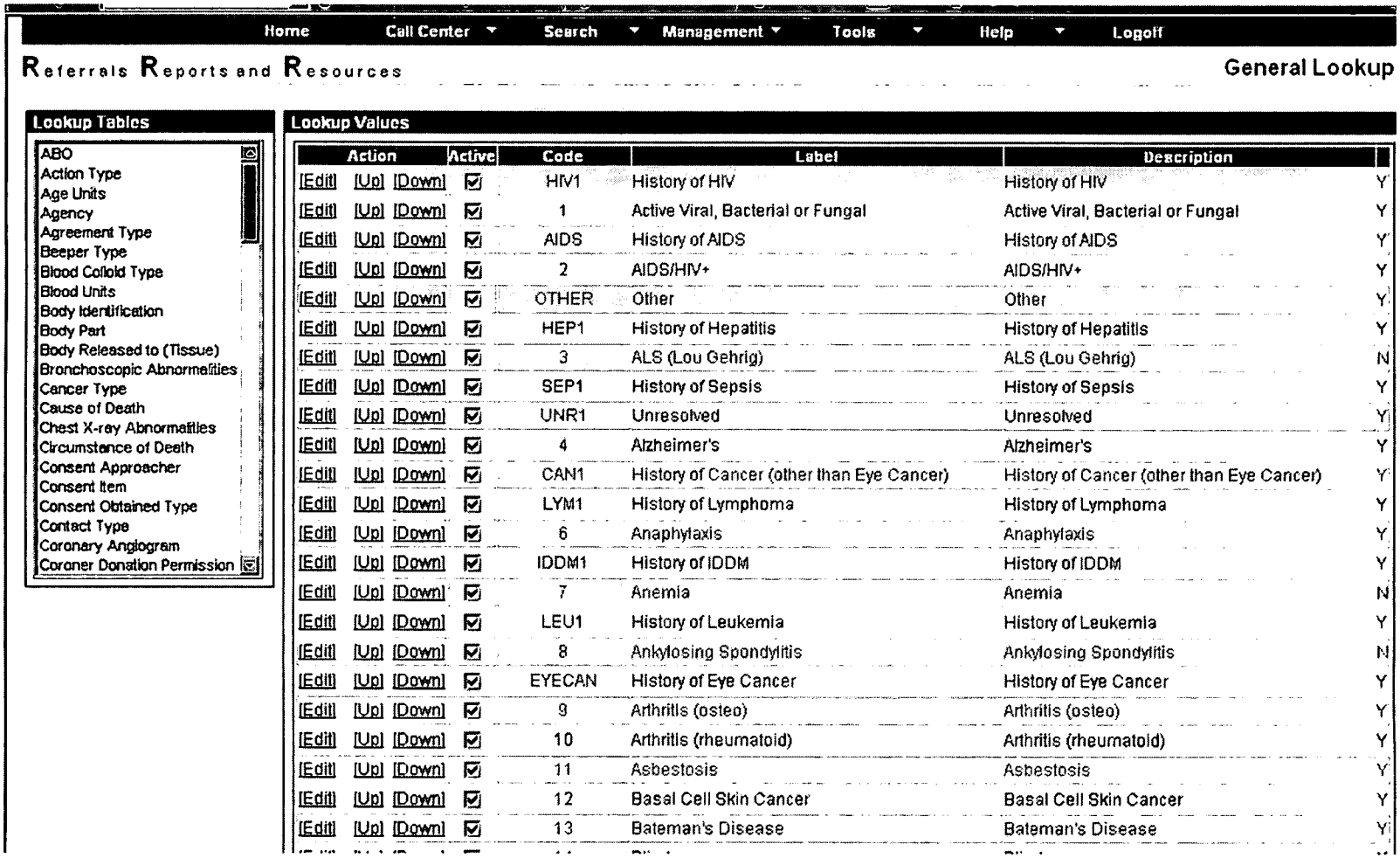
Management: Messaging

Management: Import Registry


Create Import
File Type: (Select File Type...)
File Name:
(Select File Type...)
OMV Import (Replace)
OMV Import (Update)
Registry Import
Browse...
To import a new file into the system:
Select the type of Import file from the list (OMV or Registry)
Click on the Browse button to select the file from your Local or Network drive to be imported in the database.
Click Import File, to start the import process
System Status
Registry Records: 209,592
OMV Records: 185
Merged Snapshot Records: 209,777
Registry Deleted Records: 0
OMV Deleted Records: 1
Import History
Action | File | Type | Uploaded | Imported | Bytes | Records | Valid | Loaded | Errors | Status
View | OMV (Update) | Import | 02/07/2003 12:07 | 02/07/2003 12:18 | 984 | 3 | 3 | 3 | 0 | Complete
View | OMV (Update) | Import | 02/07/2003 11:28 | 02/07/2003 11:41 | 57808 | 234 | 234 | 234 | 0 | Complete
View | OMV (Update) | Import | 02/07/2003 10:28 | 02/07/2003 10:46 | 57808 | 234 | 234 | 234 | 0 | Complete
View | OMV (Update) | Import | 02/07/2003 09:41 | 02/07/2003 09:52 | 57808 | 234 | 234 | 234 | 0 | Complete
View | OMV (Replace) | Import | 01/30/2003 13:45 | 01/31/2003 14:33 | 0 | 0 | 0 | 0 | 0 | Complete
View | OMV (Replace) | Import | 01/30/2003 13:14 | 01/30/2003 13:30 | 10658934 | 43329 | 43328 | 43328 | 1 | Complete
View | OMV (Replace) | Import | 01/30/2003 12:55 | 01/30/2003 13:06 | 368506 | 1498 | 1497 | 1497 | 1 | Complete
View | OMV (Replace) | Import | 01/30/2003 12:37 | | 368506 | 0 | 0 | 0 | 0 | Complete
View | OMV (Replace) | Import | 01/30/2003 12:36 | | 368506 | 0 | 0 | 0 | 0 | Complete
View | OMV (Replace) | Import | 01/30/2003 12:04 | | 368506 | 0 | 0 | 0 | 0 | Complete
Current User: MSHAH
R.R.R. Version 1.2
Copyright © 2002, 2003 LOPA
Date/Time: 03/11/03 10:54:42

LOPA

Management: Lookups



Action	Active	Code	Label	Description	
[Edit] [Up] [Down]	☑	HIV1	History of HIV	History of HIV	Y
[Edit] [Up] [Down]	☑	1	Active Viral, Bacterial or Fungal	Active Viral, Bacterial or Fungal	Y
[Edit] [Up] [Down]	☑	AIDS	History of AIDS	History of AIDS	Y
[Edit] [Up] [Down]	☑	2	AIDS/HIV+	AIDS/HIV+	Y
[Edit] [Up] [Down]	☑	OTHER	Other	Other	Y
[Edit] [Up] [Down]	☑	HEP1	History of Hepatitis	History of Hepatitis	Y
[Edit] [Up] [Down]	☑	3	ALS (Lou Gehrig)	ALS (Lou Gehrig)	N
[Edit] [Up] [Down]	☑	SEP1	History of Sepsis	History of Sepsis	Y
[Edit] [Up] [Down]	☑	UNR1	Unresolved	Unresolved	Y
[Edit] [Up] [Down]	☑	4	Alzheimer's	Alzheimer's	Y
[Edit] [Up] [Down]	☑	CAN1	History of Cancer (other than Eye Cancer)	History of Cancer (other than Eye Cancer)	Y
[Edit] [Up] [Down]	☑	LYM1	History of Lymphoma	History of Lymphoma	Y
[Edit] [Up] [Down]	☑	6	Anaphylaxis	Anaphylaxis	Y
[Edit] [Up] [Down]	☑	IDDM1	History of IDDM	History of IDDM	Y
[Edit] [Up] [Down]	☑	7	Anemia	Anemia	N
[Edit] [Up] [Down]	☑	LEU1	History of Leukemia	History of Leukemia	Y
[Edit] [Up] [Down]	☑	8	Ankylosing Spondylitis	Ankylosing Spondylitis	N
[Edit] [Up] [Down]	☑	EYECAN	History of Eye Cancer	History of Eye Cancer	Y
[Edit] [Up] [Down]	☑	9	Arthritis (osteo)	Arthritis (osteo)	Y
[Edit] [Up] [Down]	☑	10	Arthritis (rheumatoid)	Arthritis (rheumatoid)	Y
[Edit] [Up] [Down]	☑	11	Asbestosis	Asbestosis	Y
[Edit] [Up] [Down]	☑	12	Basal Cell Skin Cancer	Basal Cell Skin Cancer	Y
[Edit] [Up] [Down]	☑	13	Bateman's Disease	Bateman's Disease	Y

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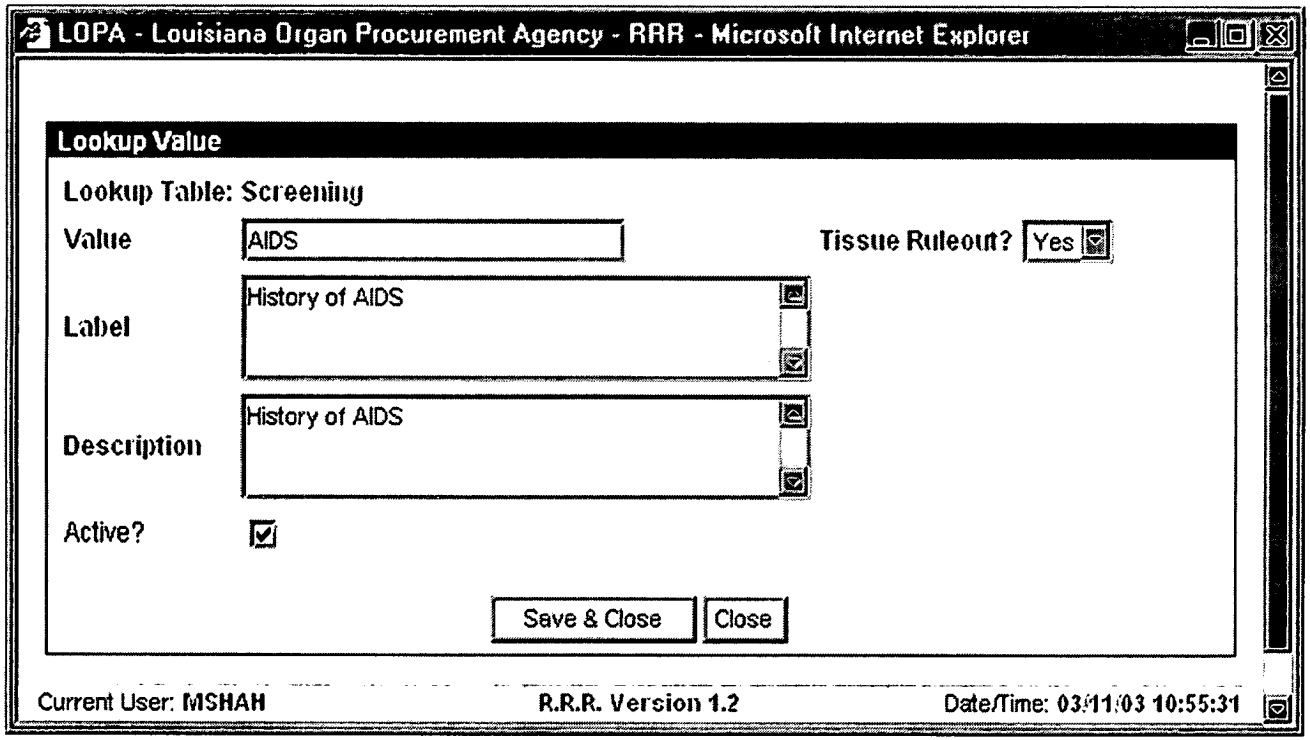
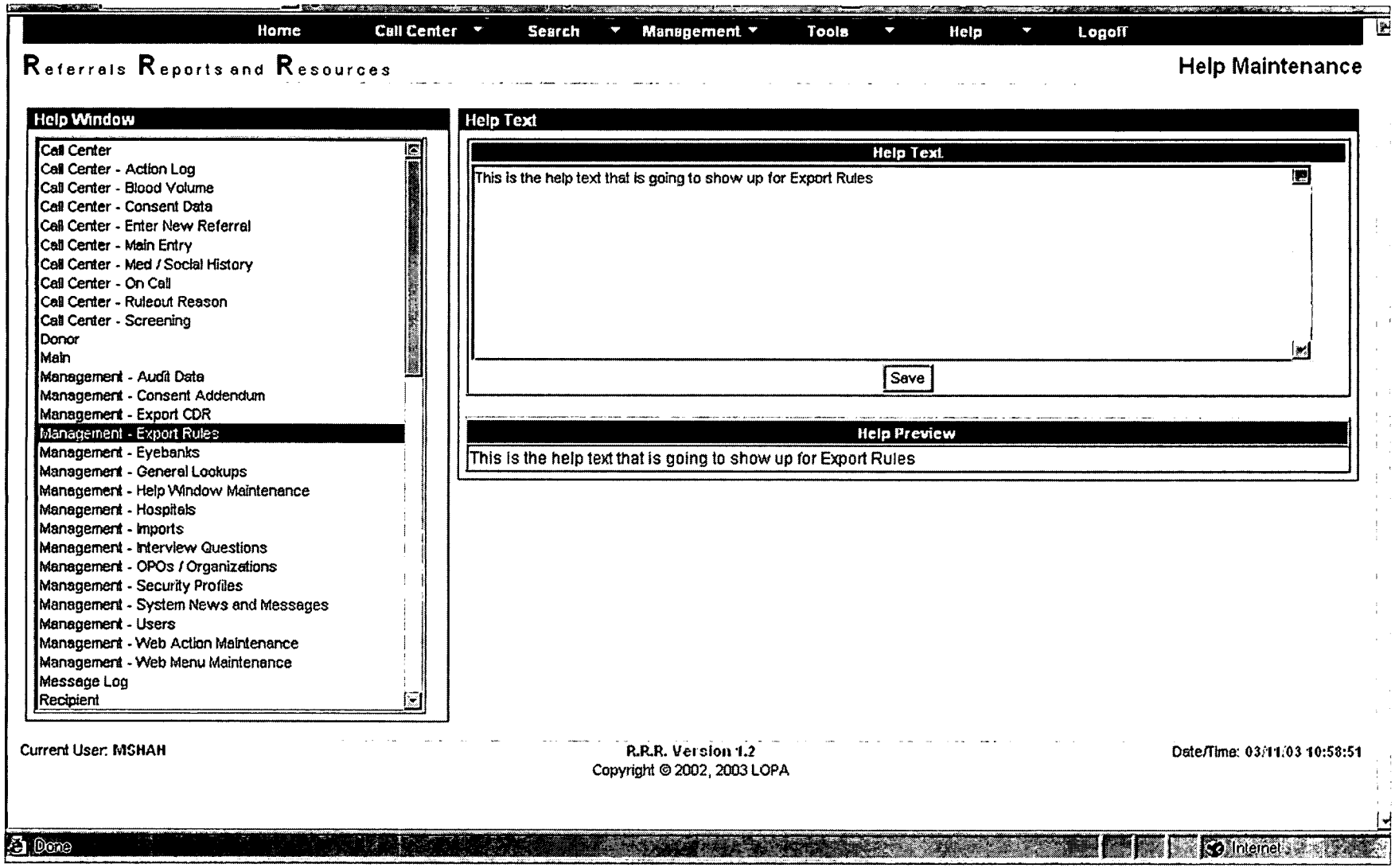
Management: Lookup Example: Screening



Management: Help



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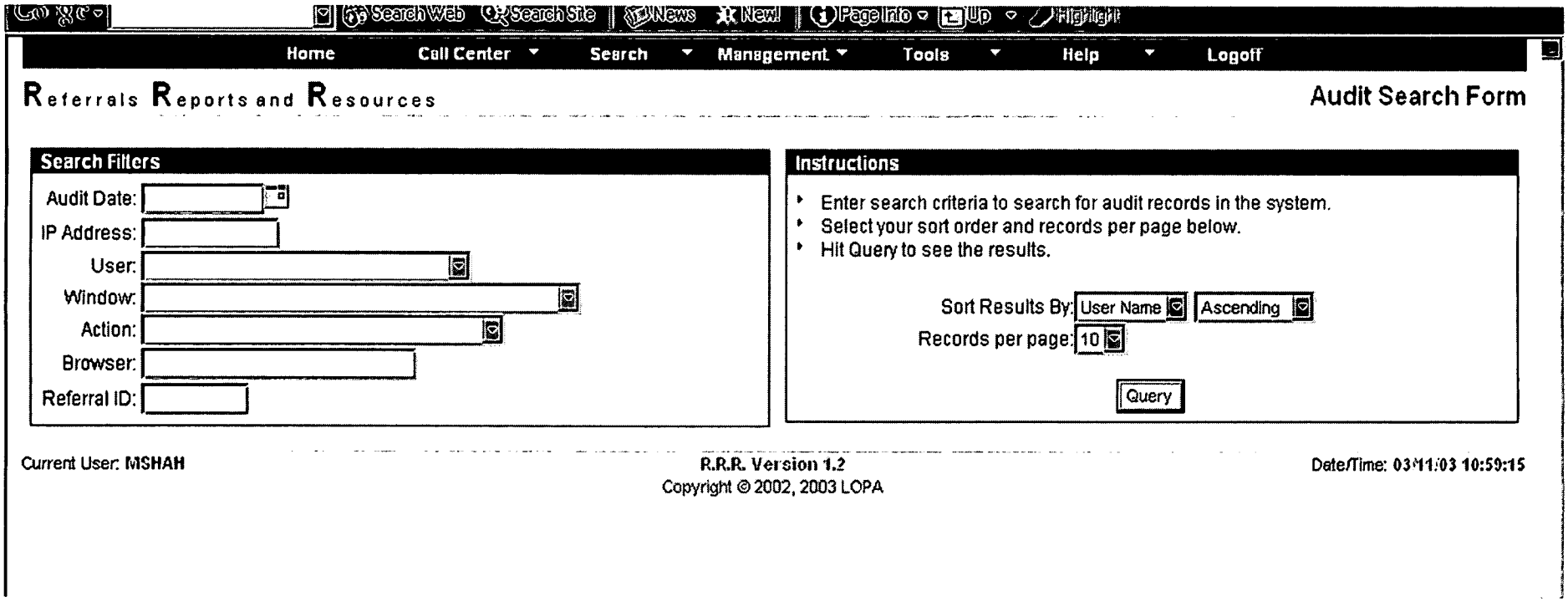
Management: Audit Data

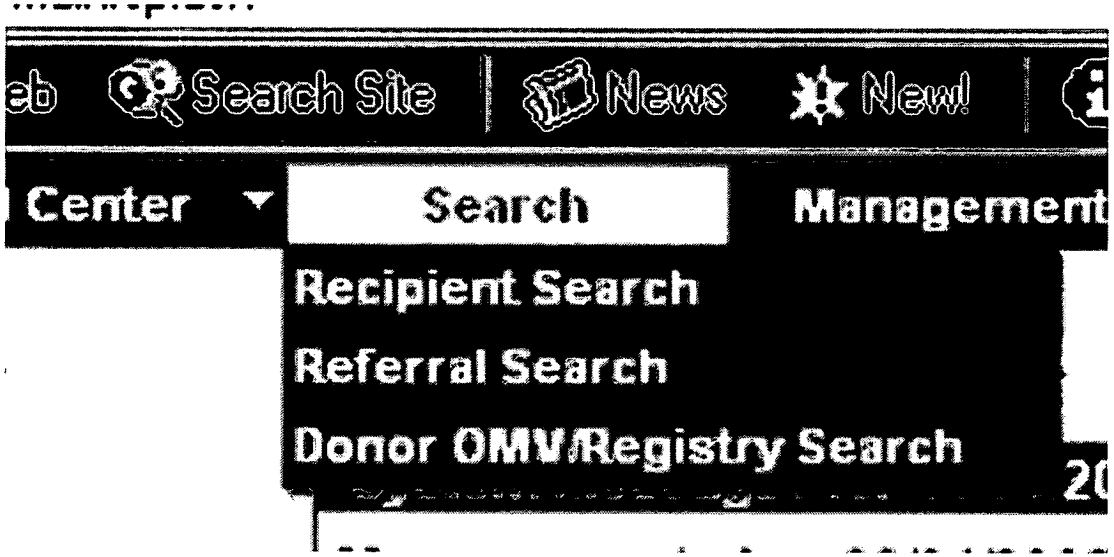


LOPA

Entering and Editing Clinical Information

LOPA

Search Menu



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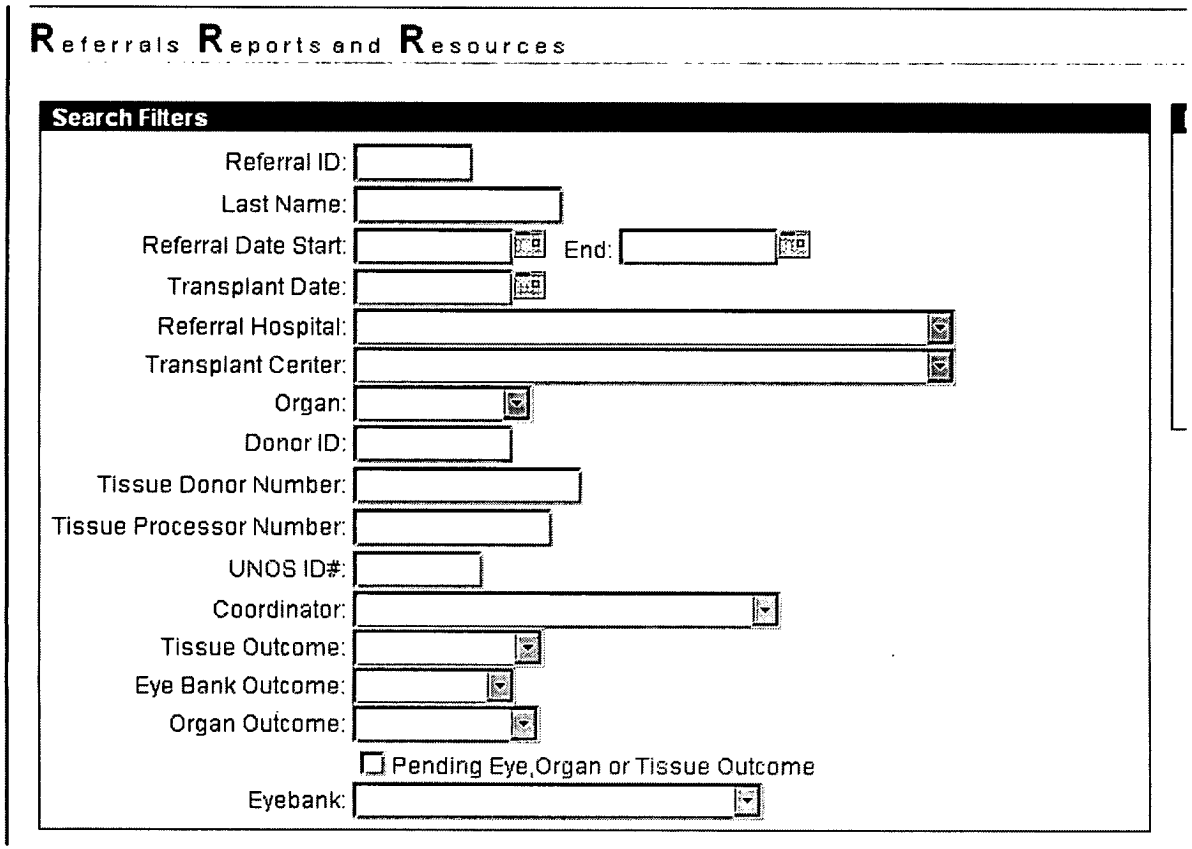
Referral Search Parameters



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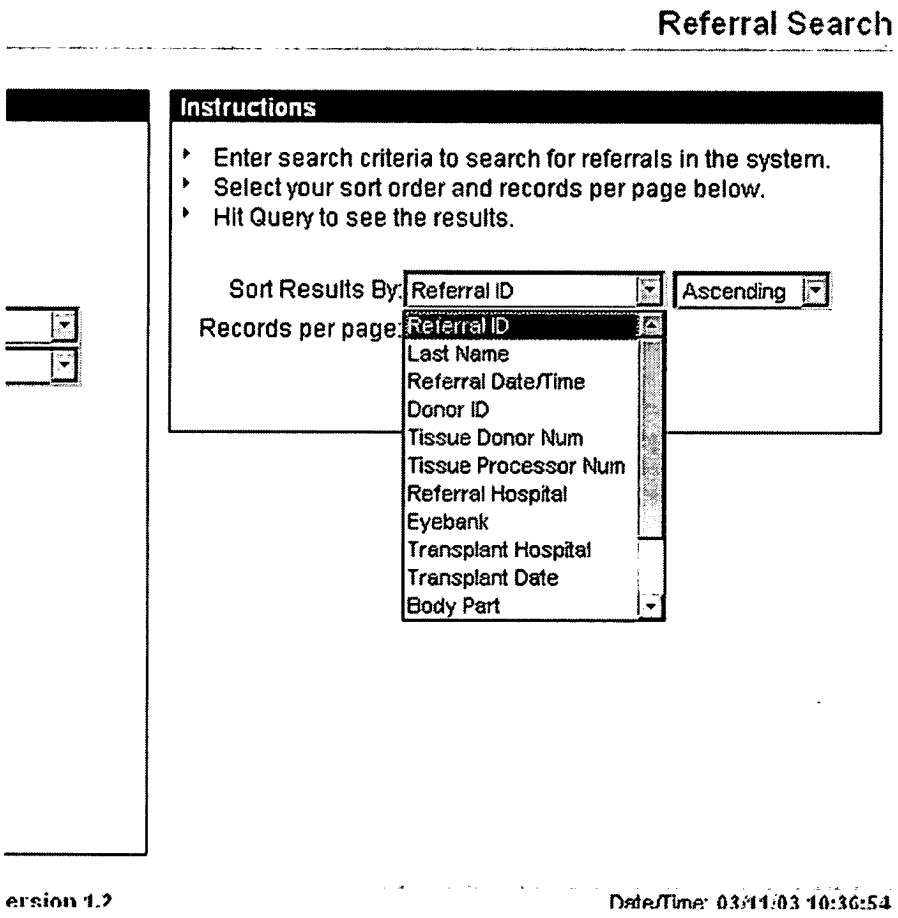
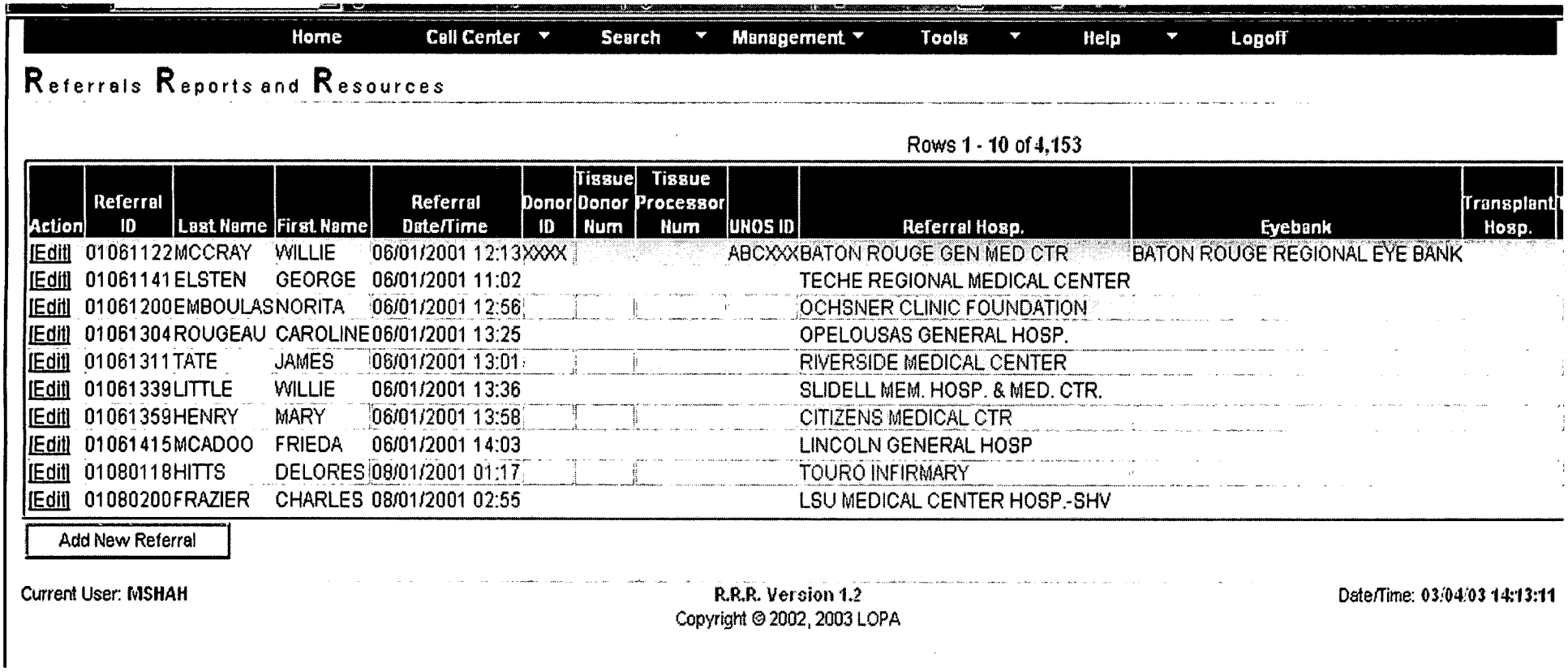
Referral Search – Sort Criteria



LOPA

Referral List



Home | Call Center | Search | Management | Tools | Help | Logoff

Referrals Reports and Resources

Rows 1 - 10 of 4,153

Action	Referral ID	Last Name	First Name	Referral Date/Time	Donor ID	Tissue Donor Num	Tissue Processor Num	UNOS ID	Referral Hosp.	Eyebank	Transplant Hosp.
[Edit]	01061122	MCCRAY	WILLIE	06/01/2001 12:13	XXXX			ABCXXX	BATON ROUGE GEN MED CTR	BATON ROUGE REGIONAL EYE BANK	
[Edit]	01061141	ELSTEN	GEORGE	06/01/2001 11:02					TECHE REGIONAL MEDICAL CENTER		
[Edit]	01061200	EMBOULAS	NORITA	06/01/2001 12:56					OCHSNER CLINIC FOUNDATION		
[Edit]	01061304	ROUGEAU	CAROLINE	06/01/2001 13:25					OPELOUSAS GENERAL HOSP.		
[Edit]	01061311	TATE	JAMES	06/01/2001 13:01					RIVERSIDE MEDICAL CENTER		
[Edit]	01061339	LITTLE	WILLIE	06/01/2001 13:36					SLIDELL MEM. HOSP. & MED. CTR.		
[Edit]	01061359	HENRY	MARY	06/01/2001 13:58					CITIZENS MEDICAL CTR		
[Edit]	01061415	MCADOO	FRIEDA	06/01/2001 14:03					LINCOLN GENERAL HOSP		
[Edit]	01080118	HITTS	DELORES	08/01/2001 01:17					TOURO INFIRMARY		
[Edit]	01080200	FRAZIER	CHARLES	08/01/2001 02:55					LSU MEDICAL CENTER HOSP.-SHV		

Add New Referral

Current User: MSHAH

R.R.R. Version 1.2

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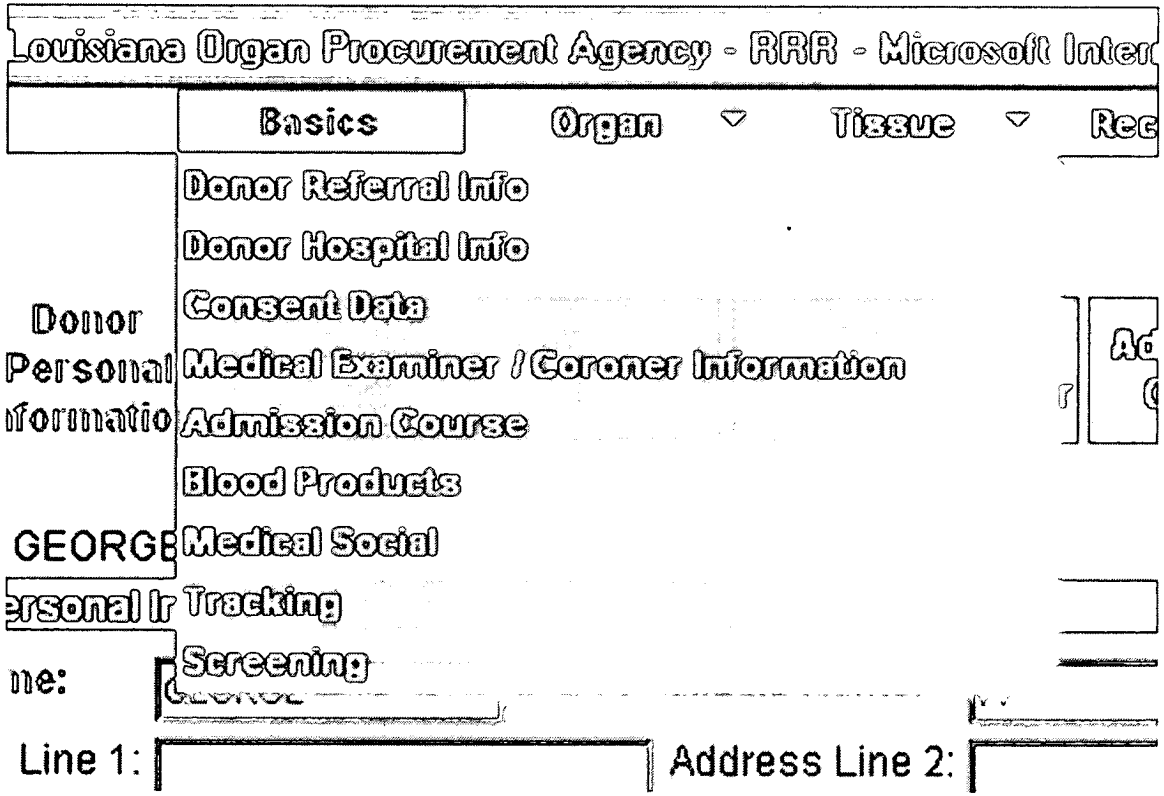
Date/Time: 03/04/03 14:13:11

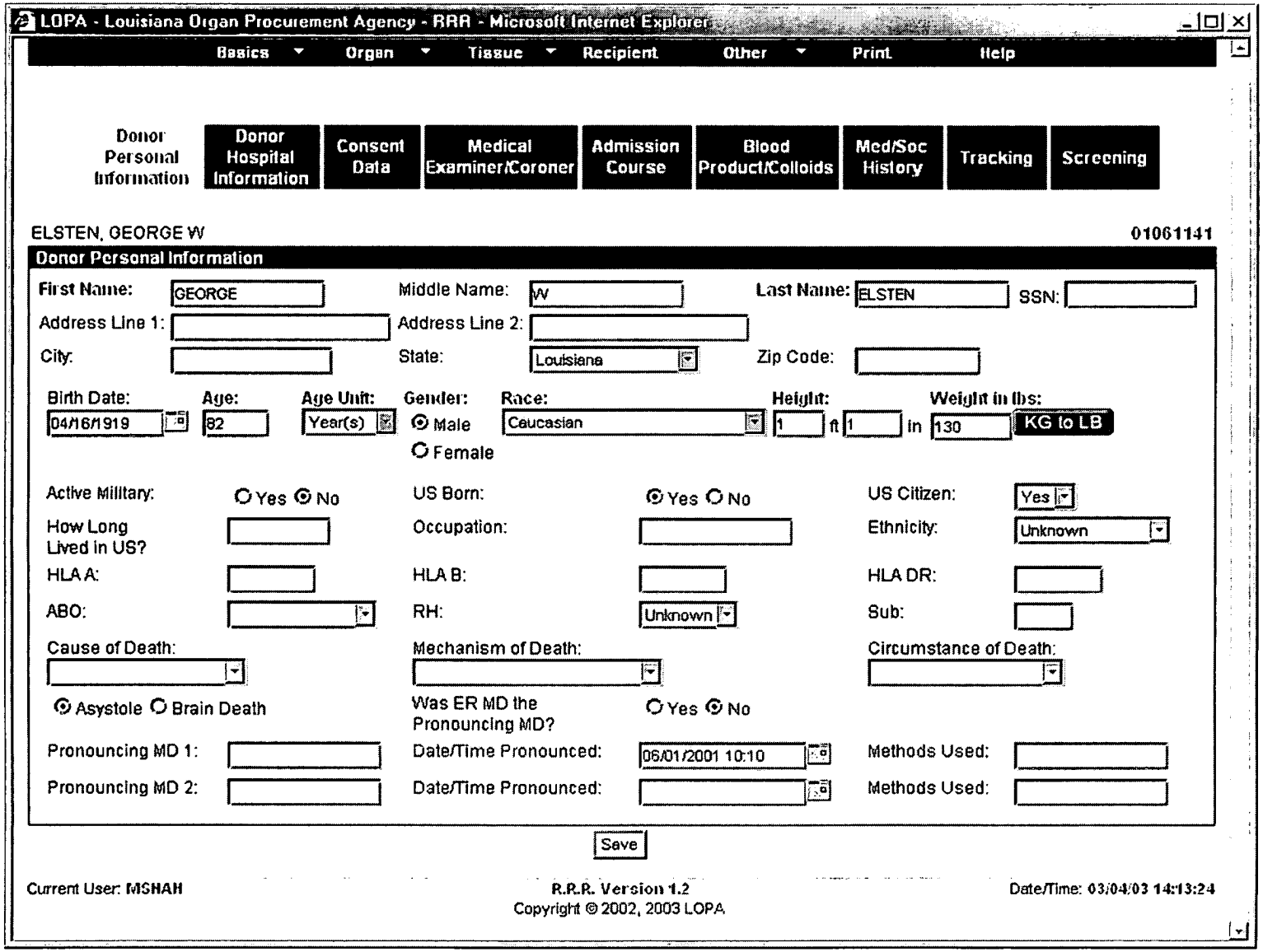
LOPA

Referral Basics Menu



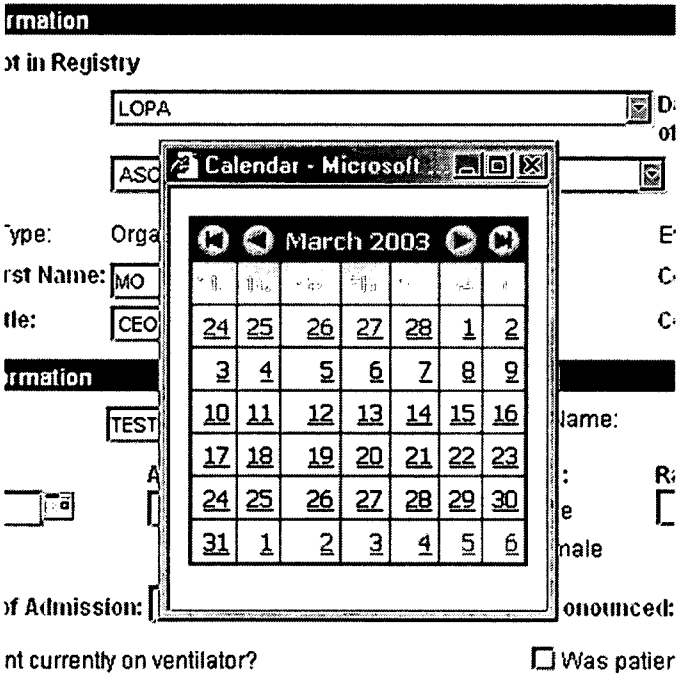
LOPA

Referral Basics: Main Page



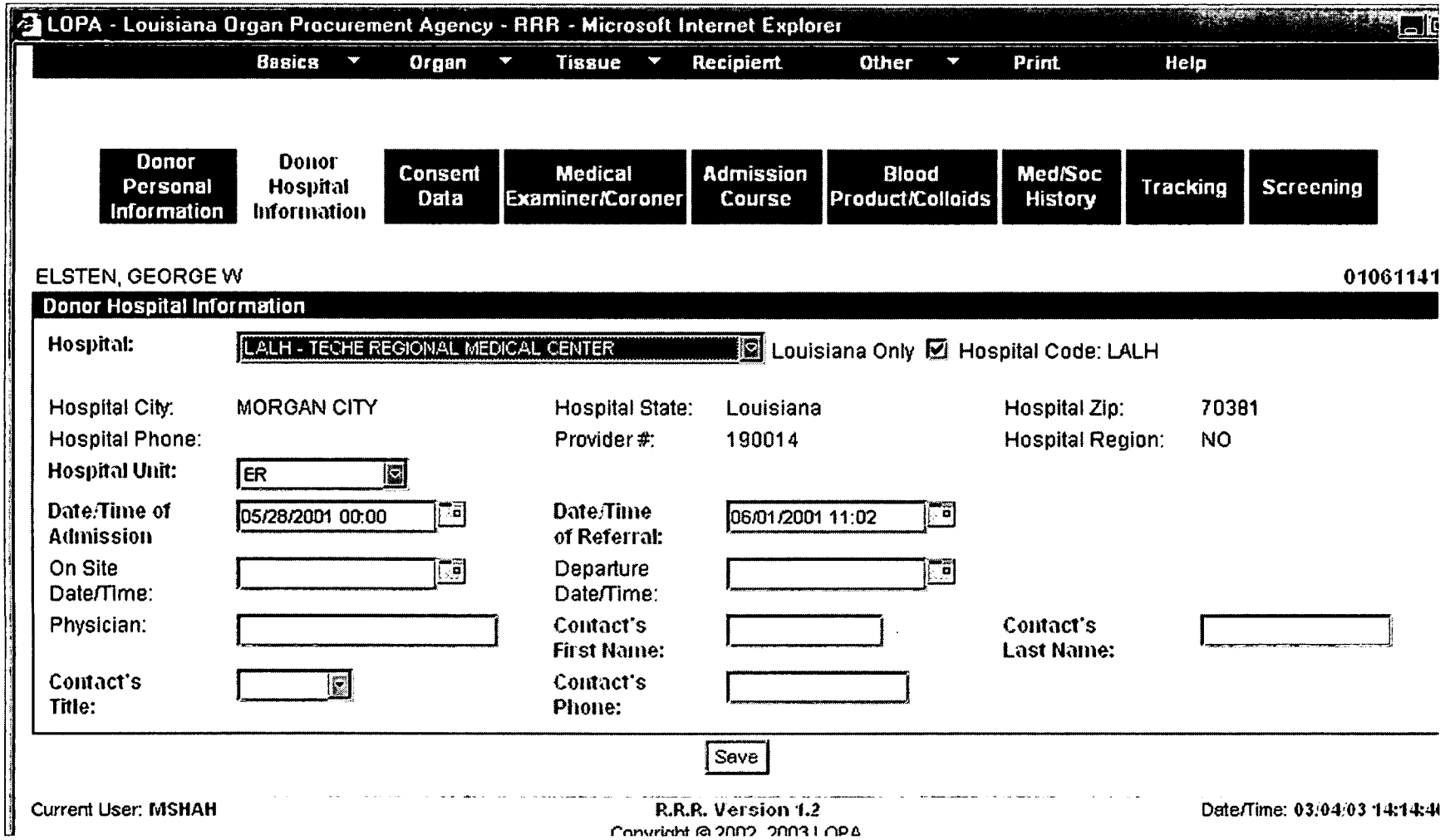
LOPA

Entering a date



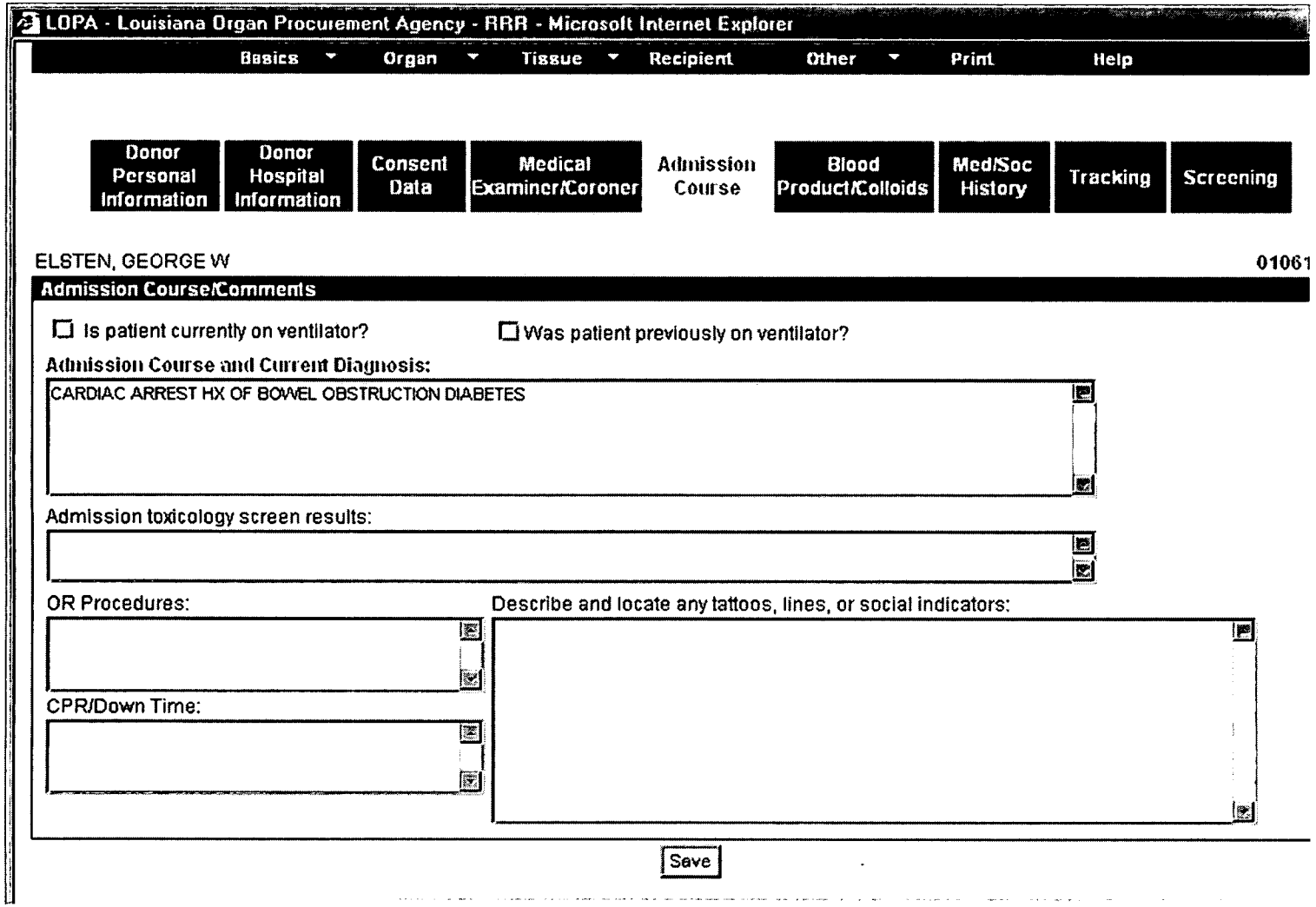
LOPA

Referral Basics: Hospital Information



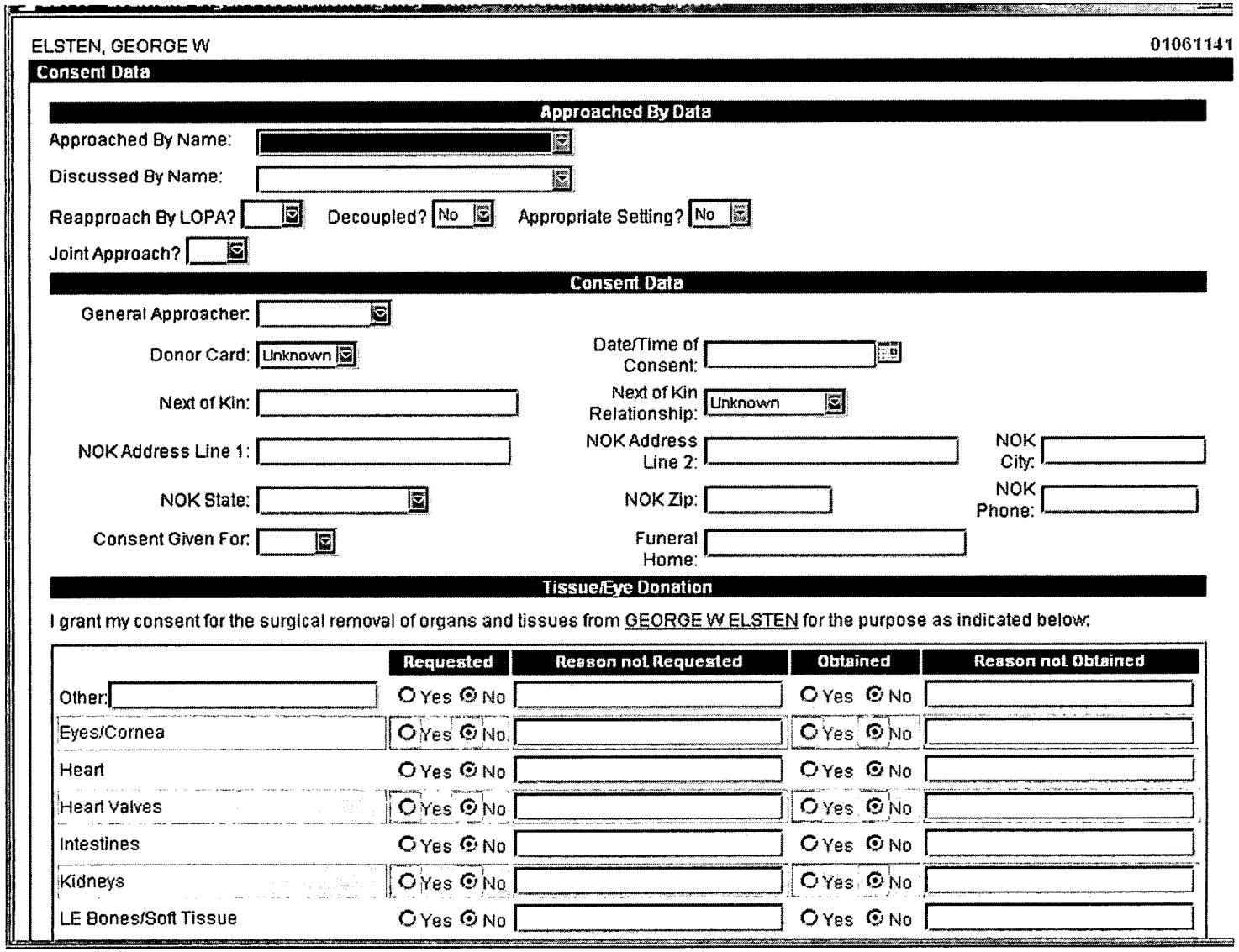
LOPA

Referral Basics: Admission Course



LOPA

Referral Basics: Consent



ELSTEN, GEORGE W 01061141

Consent Data

Approached By Data

Approached By Name:

Discussed By Name:

Reapproach By LOPA? Decoupled? No Appropriate Setting? No

Joint Approach?

Consent Data

General Approacher:

Donor Card: Unknown

Date/Time of Consent:

Next of Kin:

Next of Kin Relationship: Unknown

NOK Address Line 1:

NOK Address Line 2:

NOK City:

NOK State:

NOK Zip:

NOK Phone:

Consent Given For:

Funeral Home:

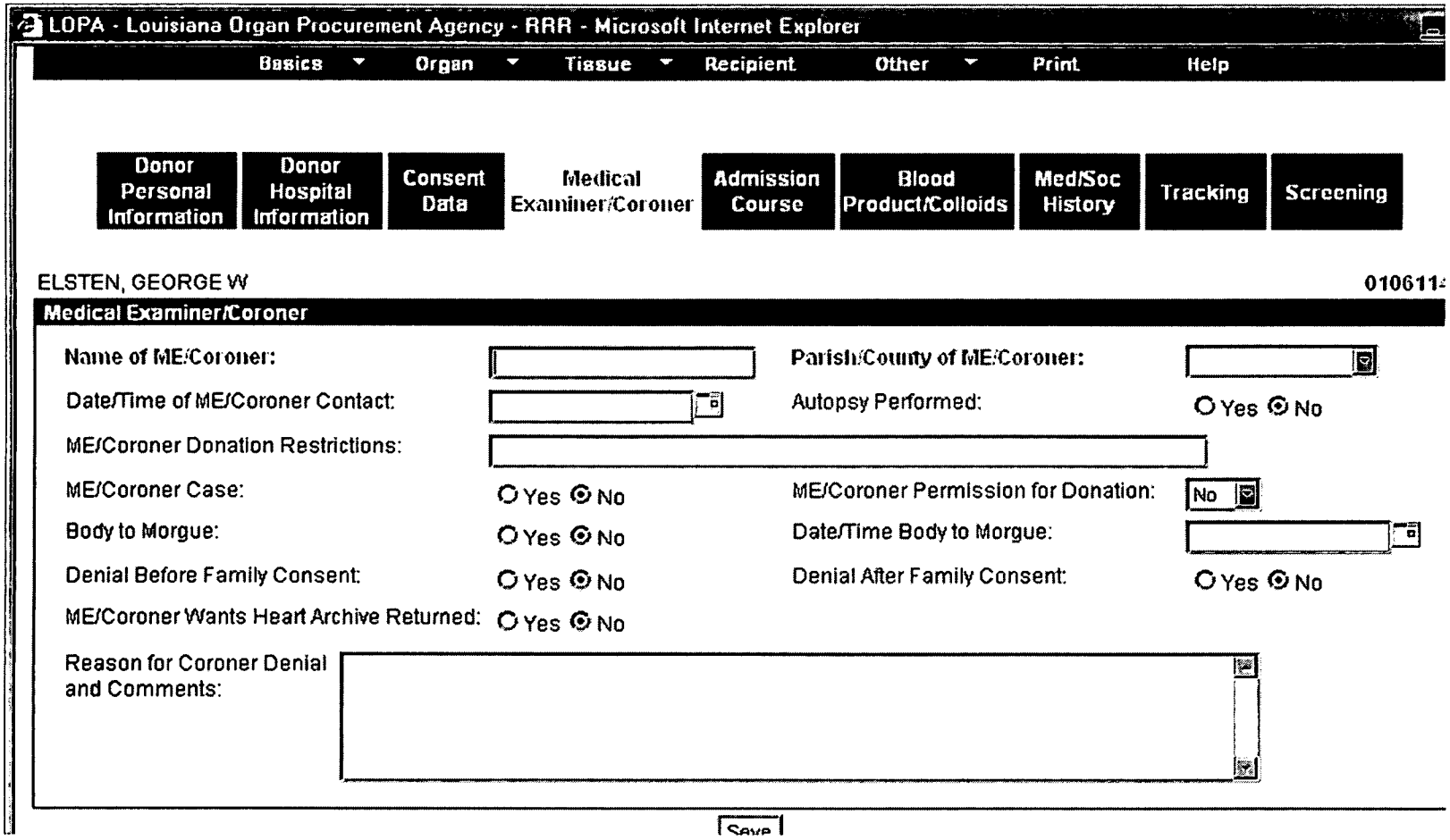
Tissue/Eye Donation

I grant my consent for the surgical removal of organs and tissues from GEORGE W ELSTEN for the purpose as indicated below:

	Requested	Reason not Requested	Obtained	Reason not Obtained
Other:	○ Yes ◉ No		○ Yes ◉ No	
Eyes/Cornea	○ Yes ◉ No		○ Yes ◉ No	
Heart	○ Yes ◉ No		○ Yes ◉ No	
Heart Valves	○ Yes ◉ No		○ Yes ◉ No	
Intestines	○ Yes ◉ No		○ Yes ◉ No	
Kidneys	○ Yes ◉ No		○ Yes ◉ No	
LE Bones/Soft Tissue	○ Yes ◉ No		○ Yes ◉ No	

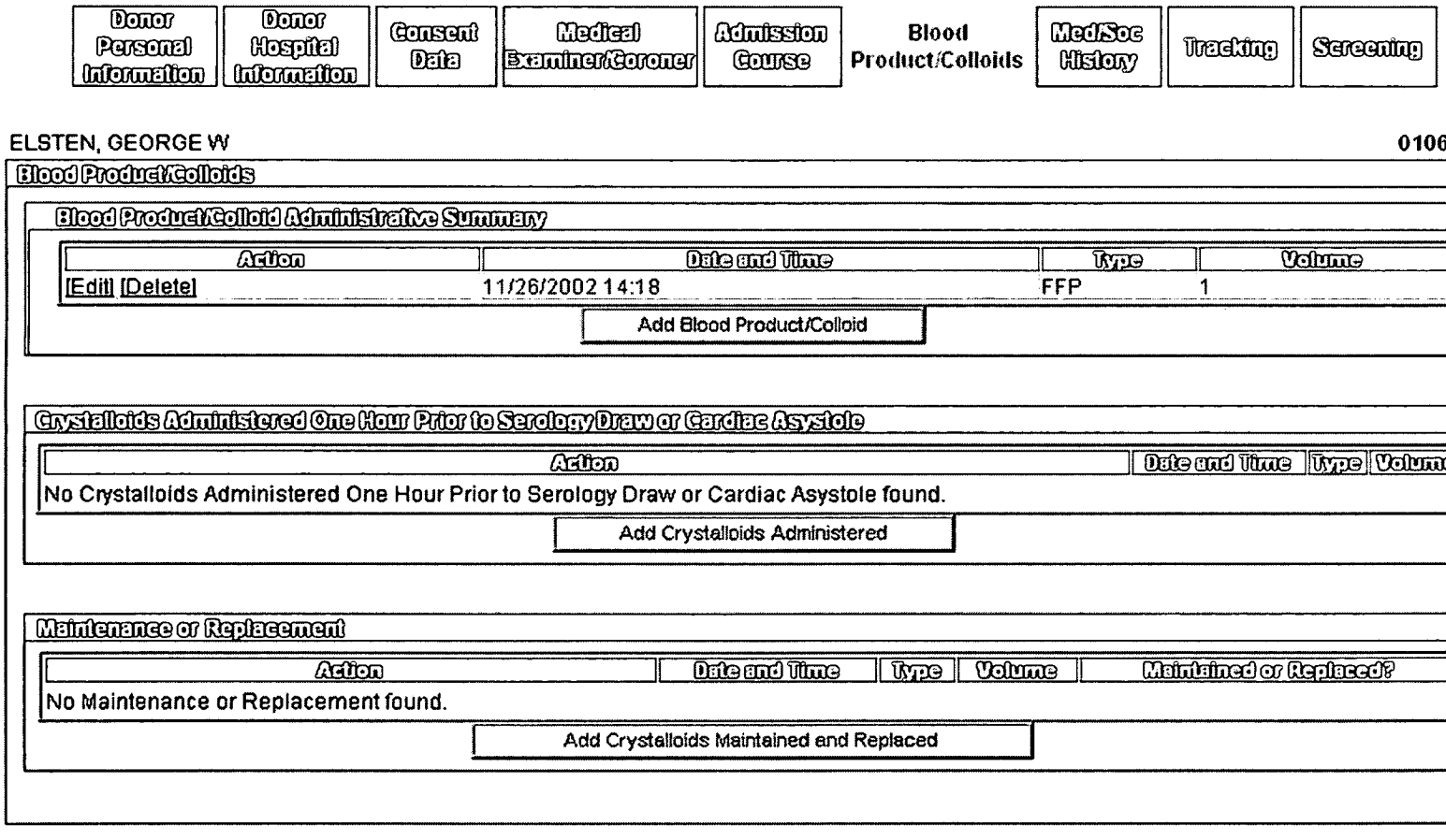
LOPA

Referral Basics: ME/Coroner



LOPA

Referral Basics: Blood Products/Colloids



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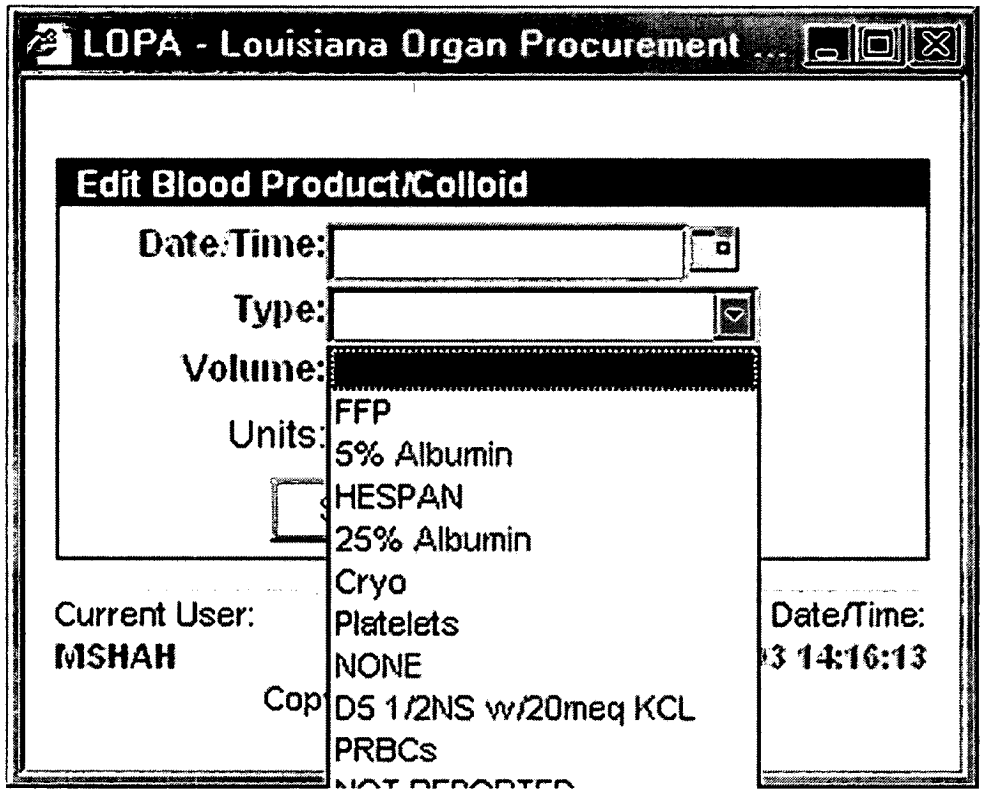
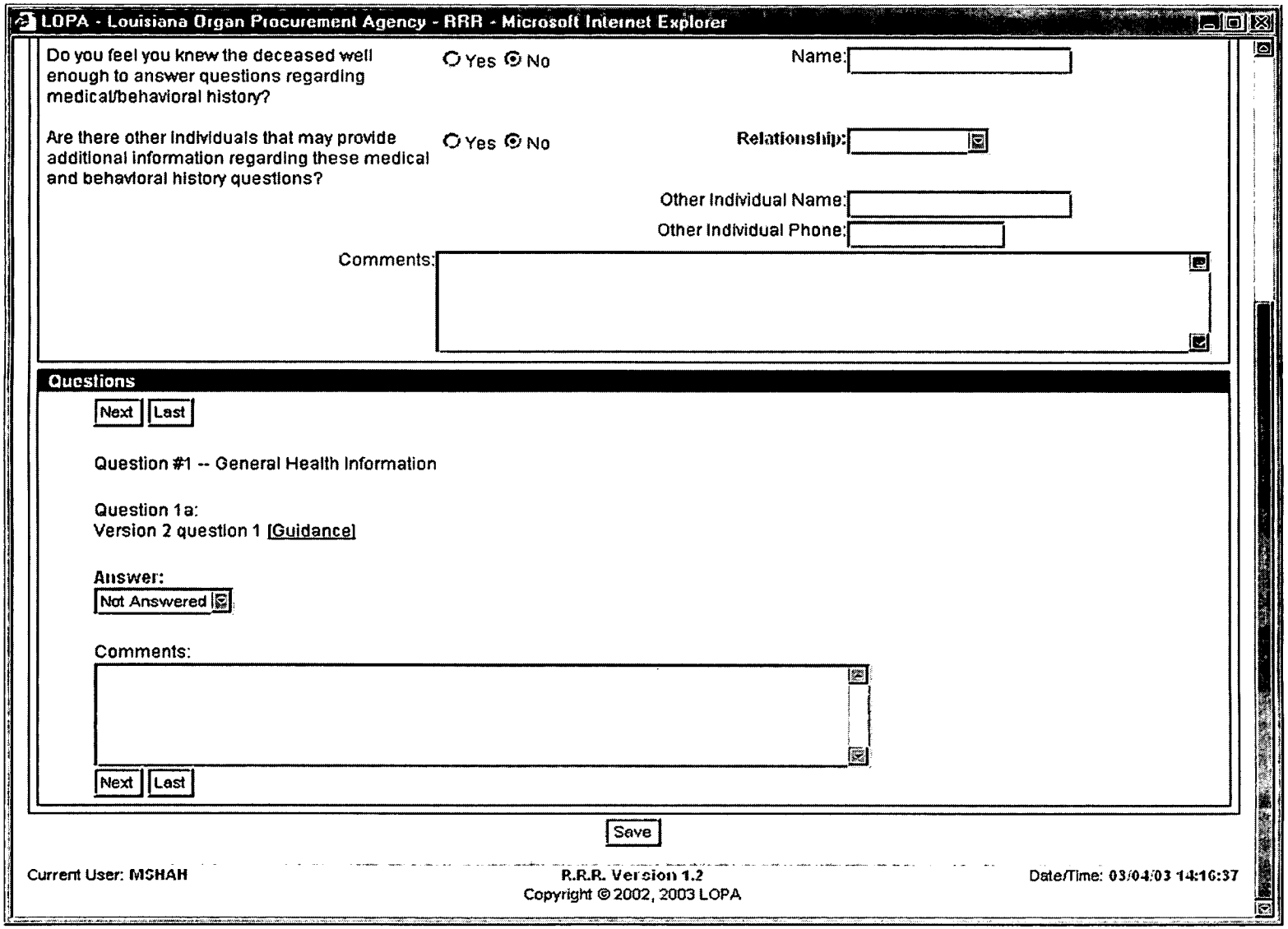
Referral Basics: Entering a Blood Product



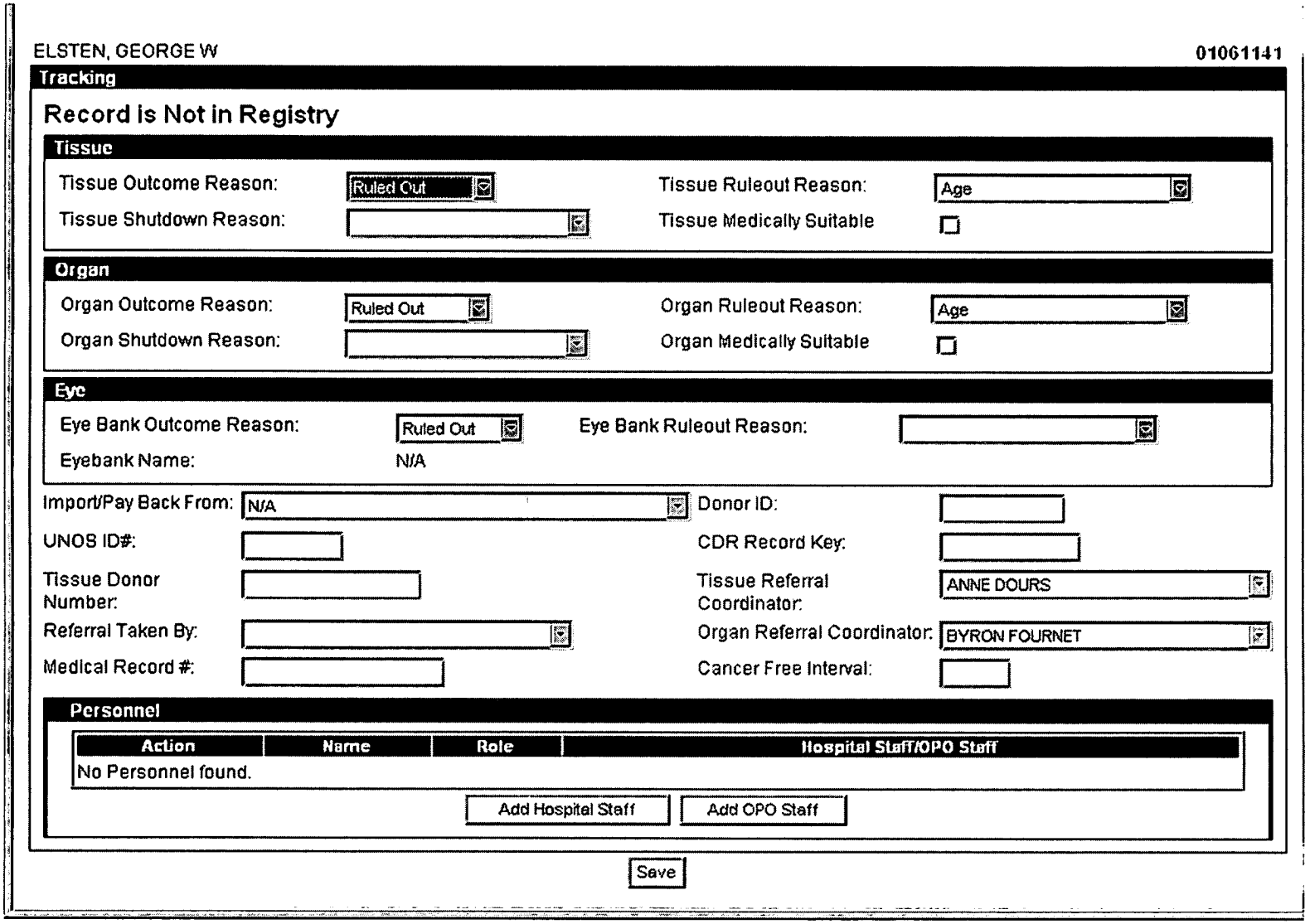
LOPA

Referral Basics: Medical/Social Questionnaire



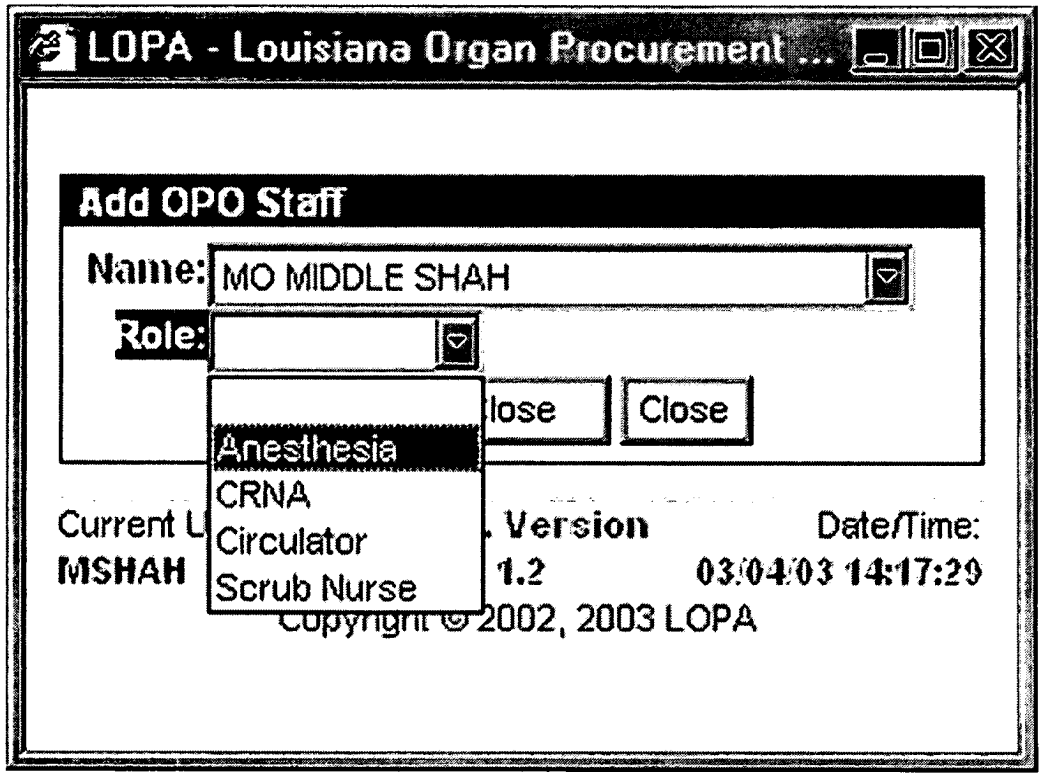
LOPA

Referral Basics: Tracking

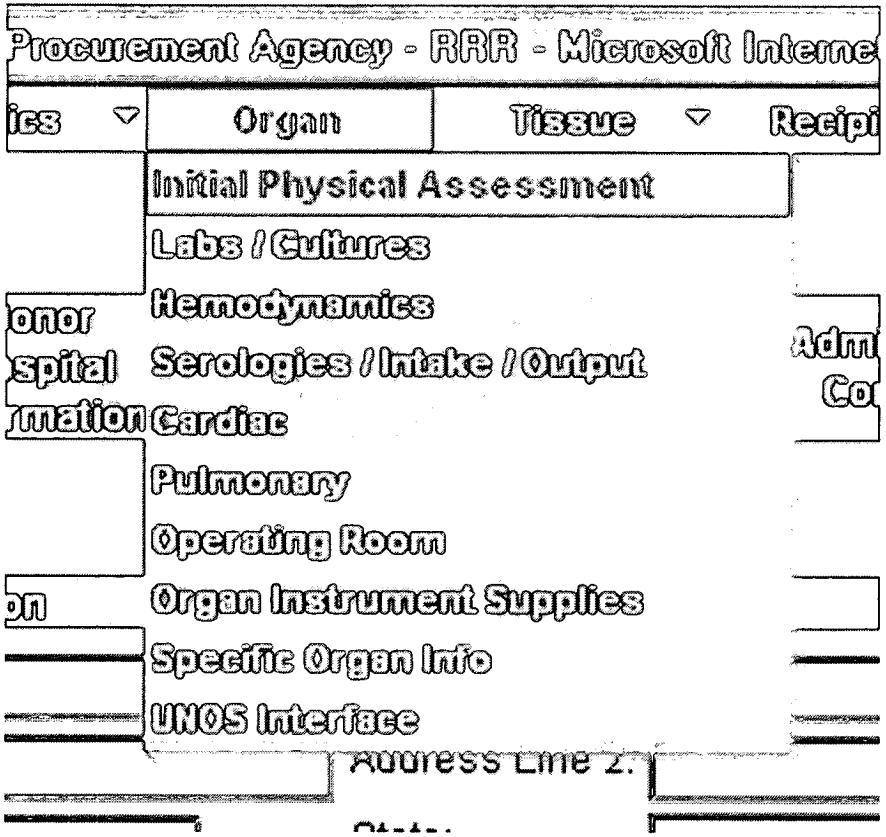


LOPA

Referral Basics: Adding staff

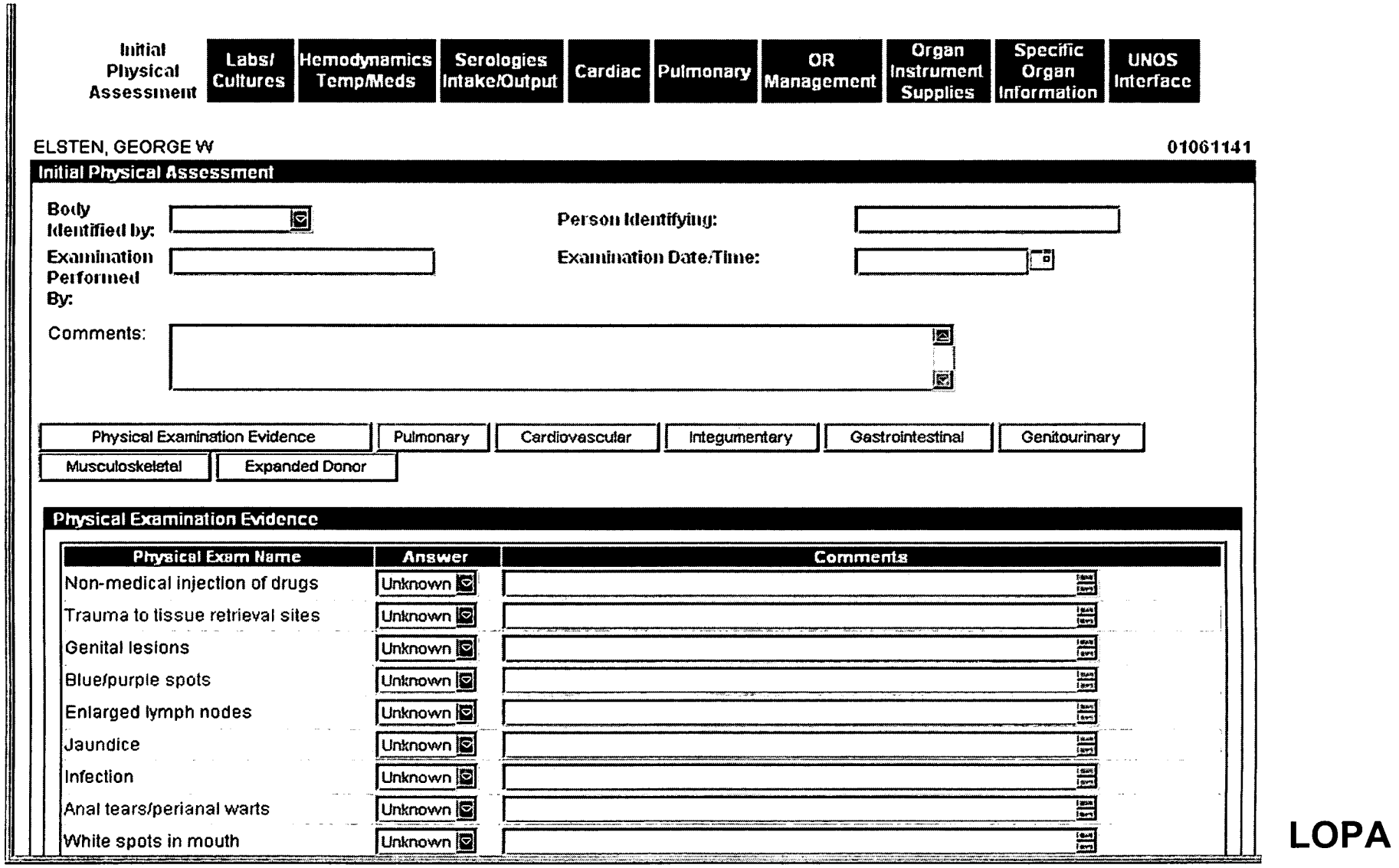


Organ Menu



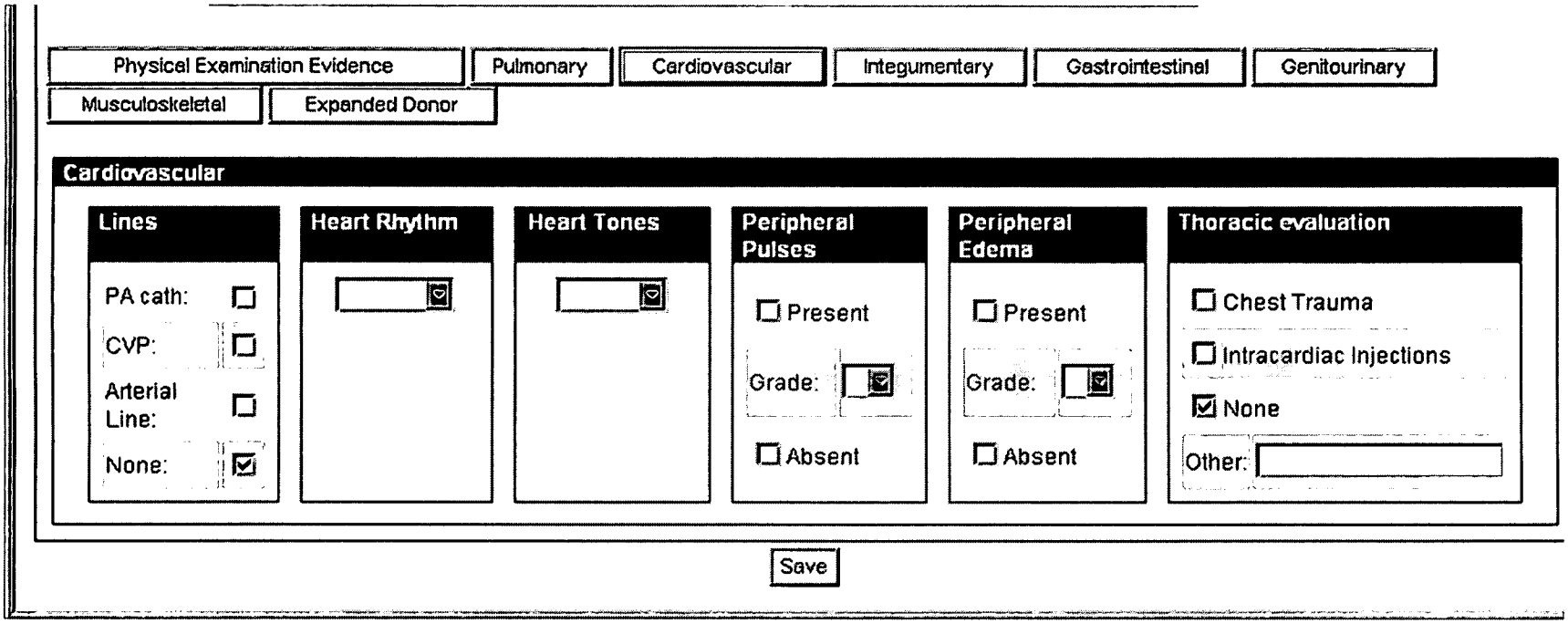
LOPA

Organ: Initial Physical Assessment



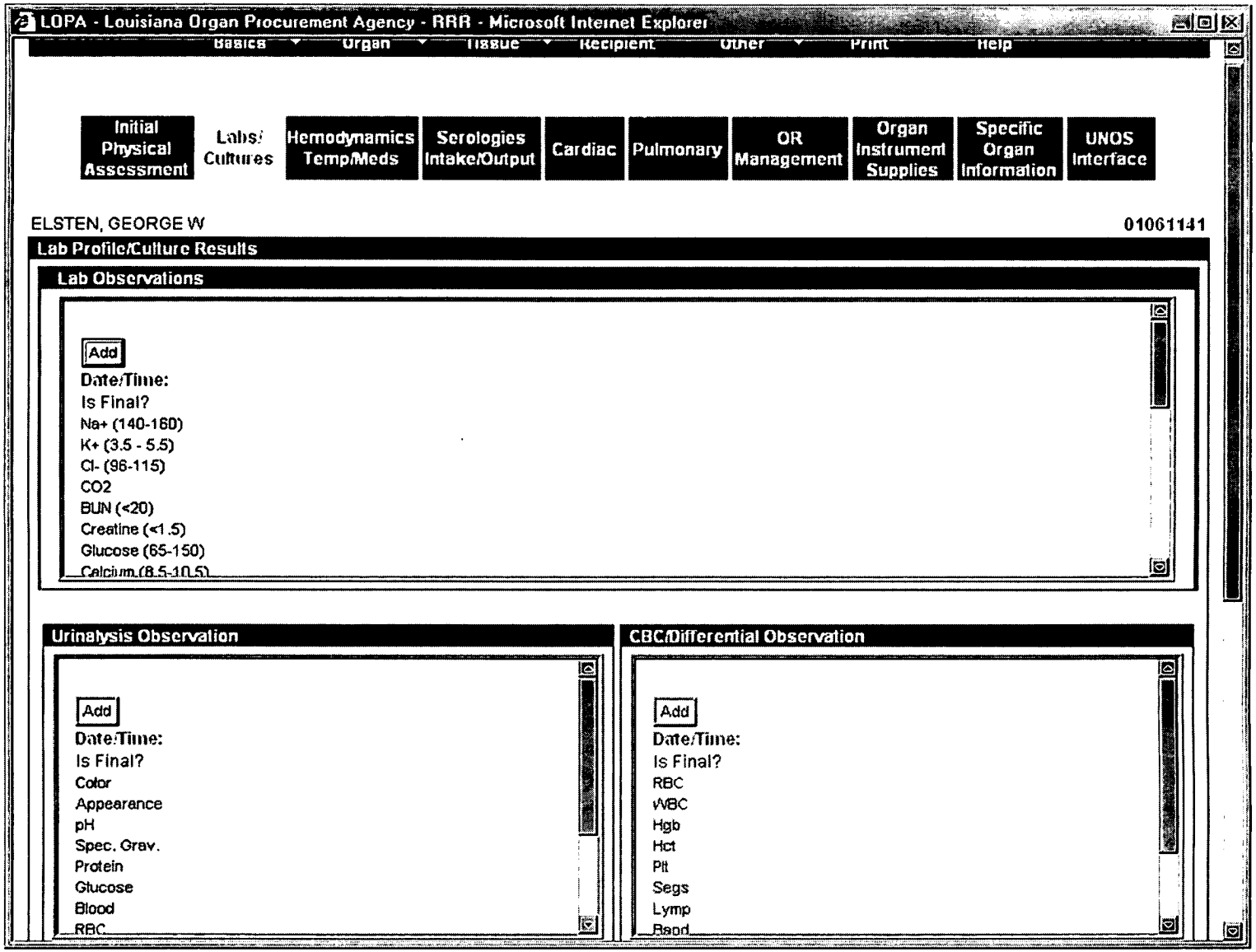
LOPA

Organ: Initial Physical Assessment -Cardiovascular



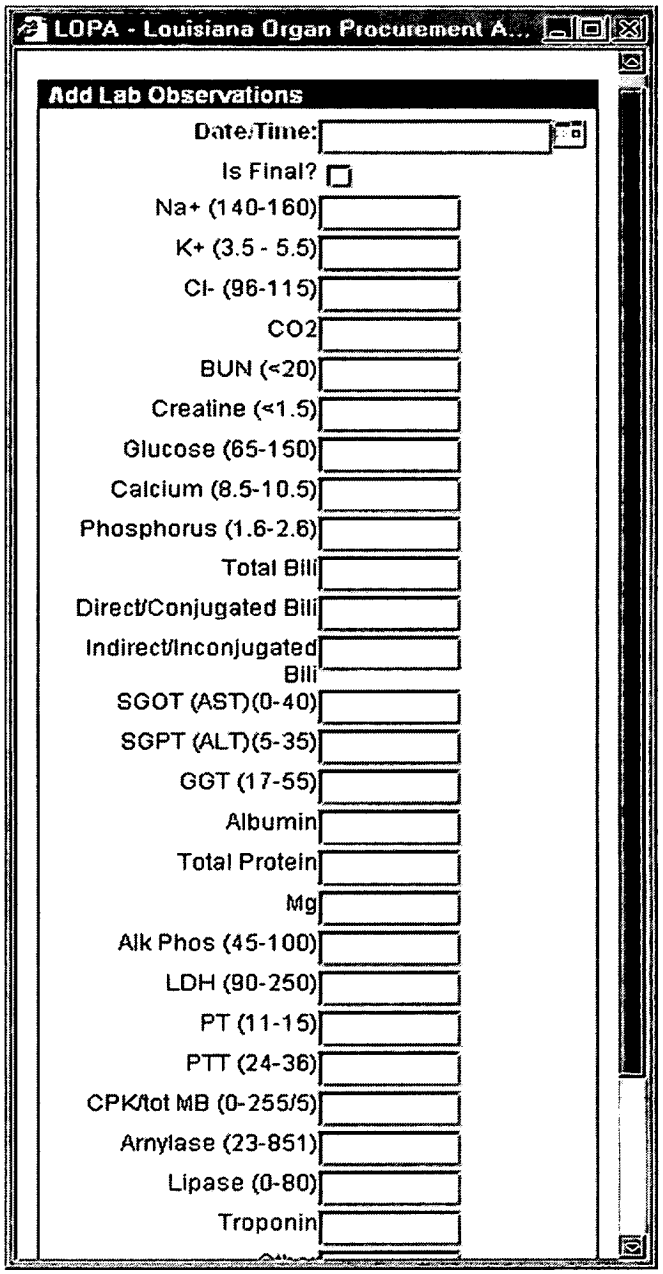
LOPA

Organ: Labs/Cultures



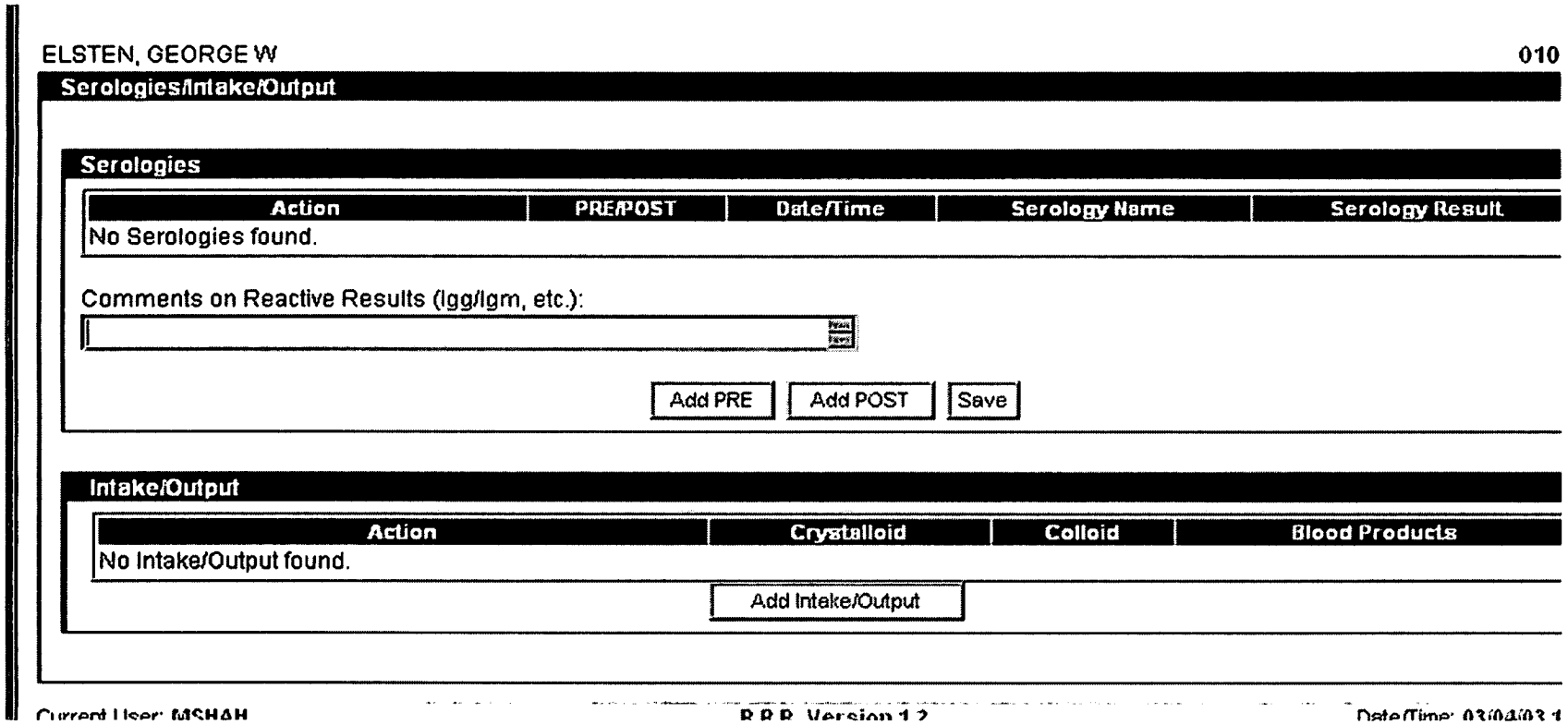
LOPA

Organ: Adding a lab



LOPA

Organ: Serology Results



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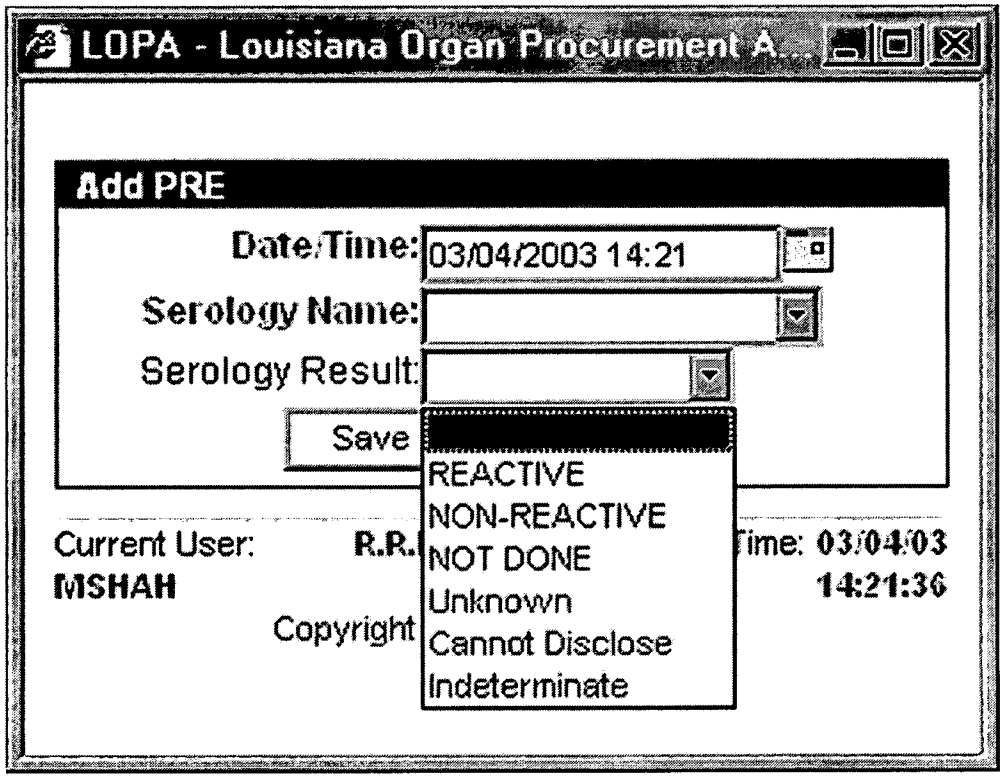
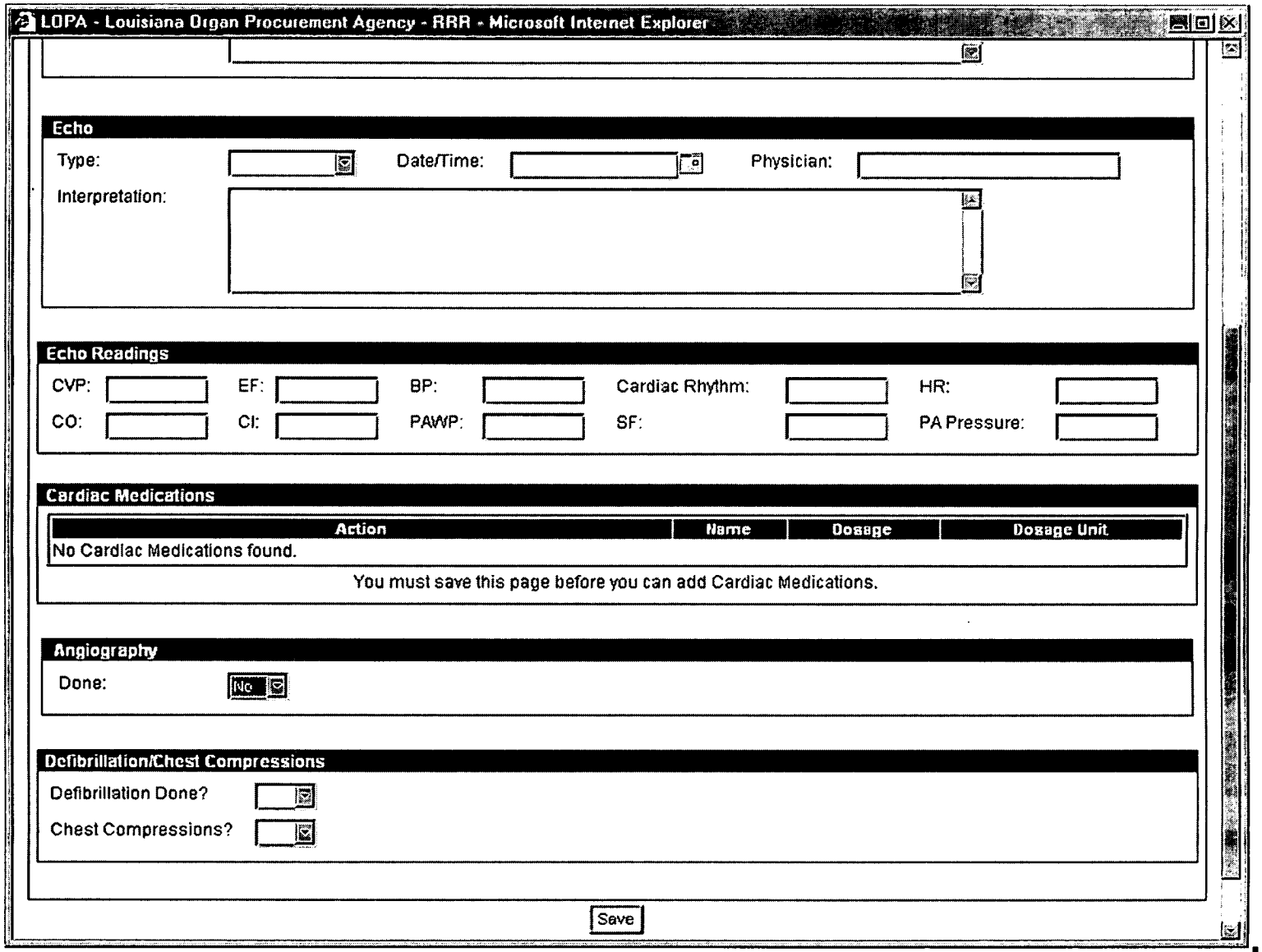
Organ: Serology – Adding a serology



Organ: Cardiac Data



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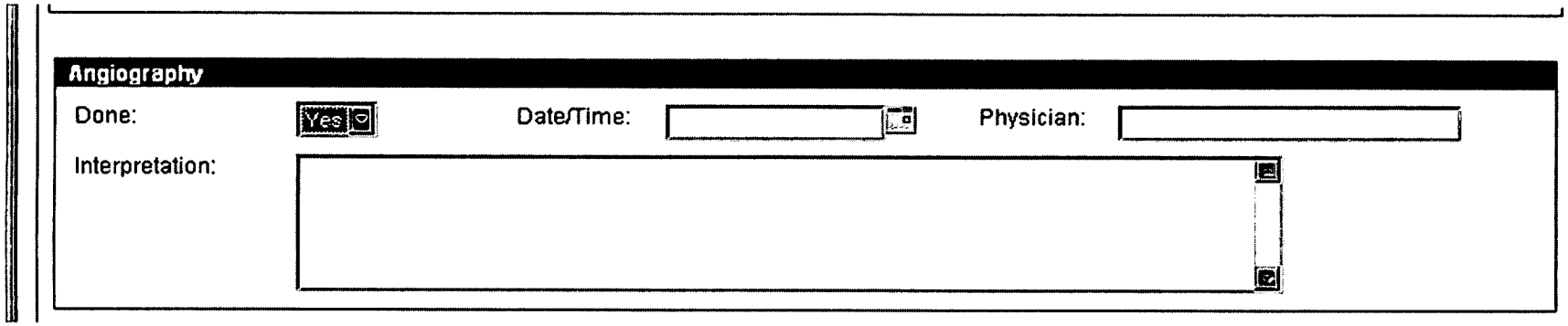
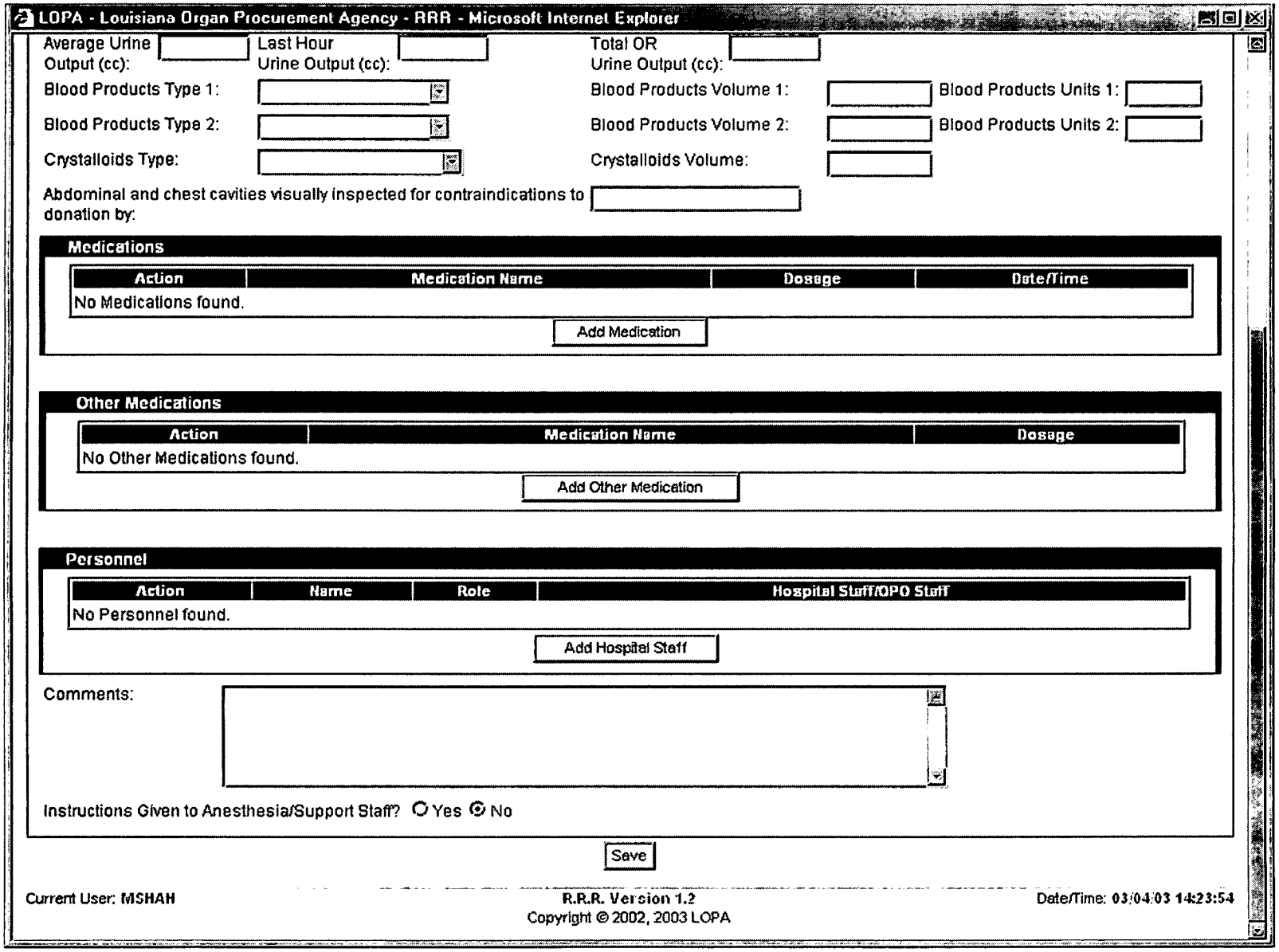
Organ: Cardiac (dependant fields)



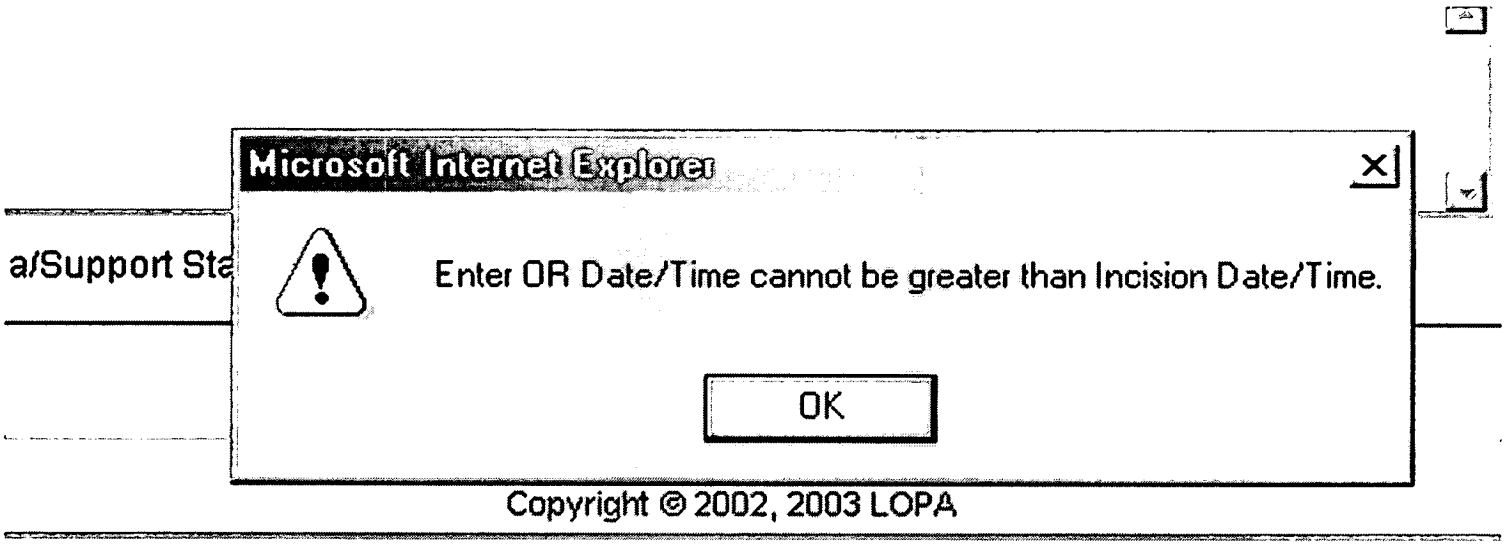
LOPA

Organ: OR Management



LOPA

Organ: OR Management – Example Validation


Microsoft Internet Explorer
a/Support Sta
Enter OR Date/Time cannot be greater than Incision Date/Time.
OK
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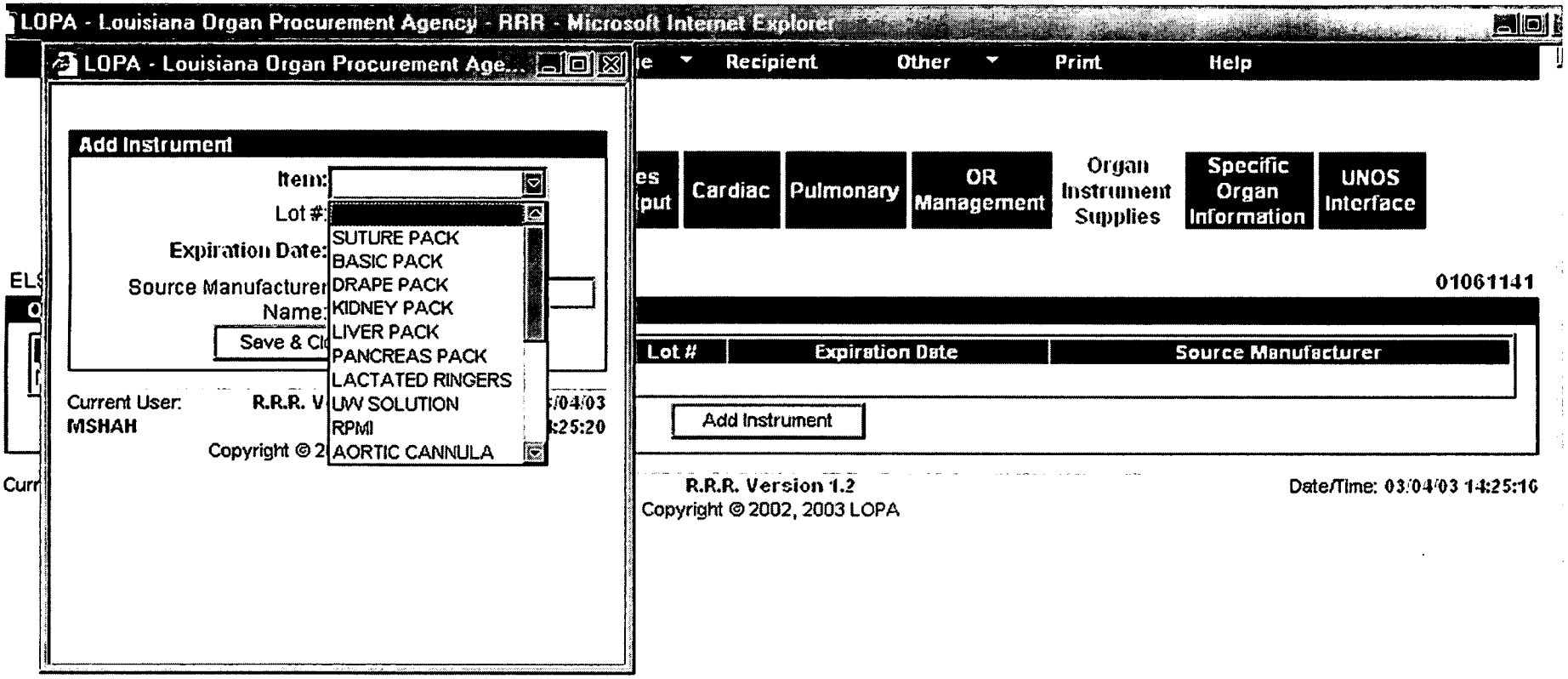
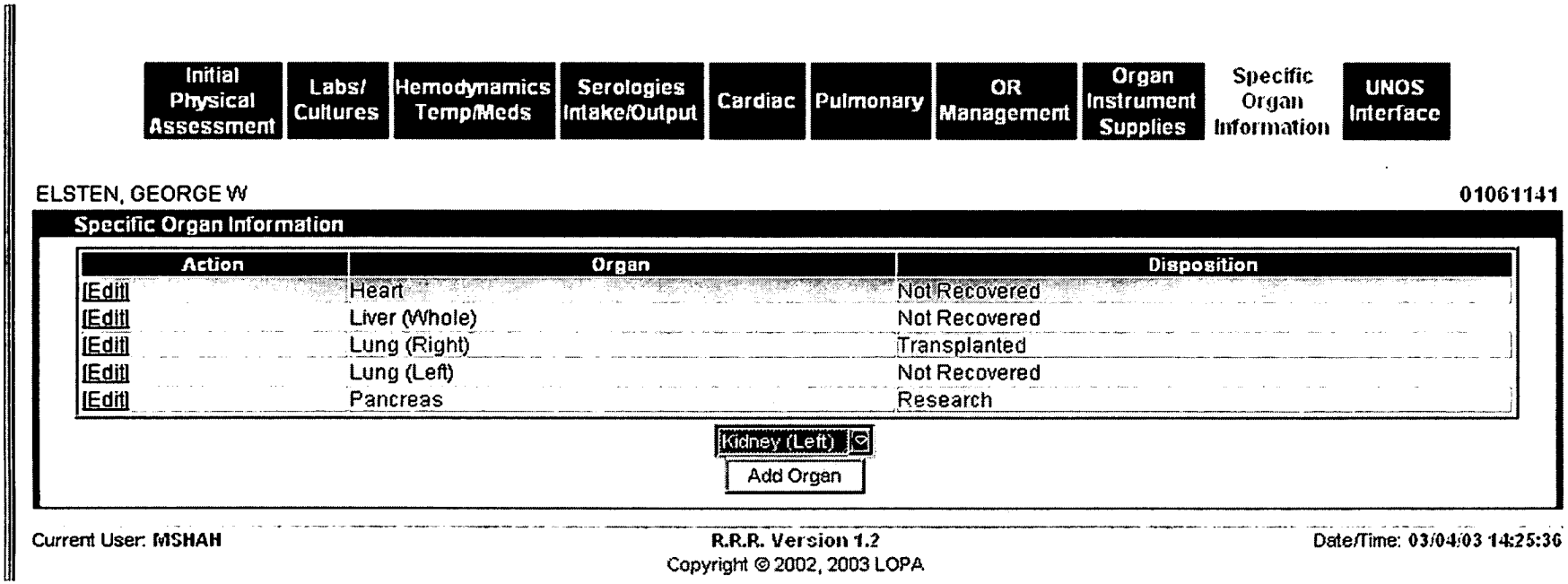
Organ: Instrument Supplies



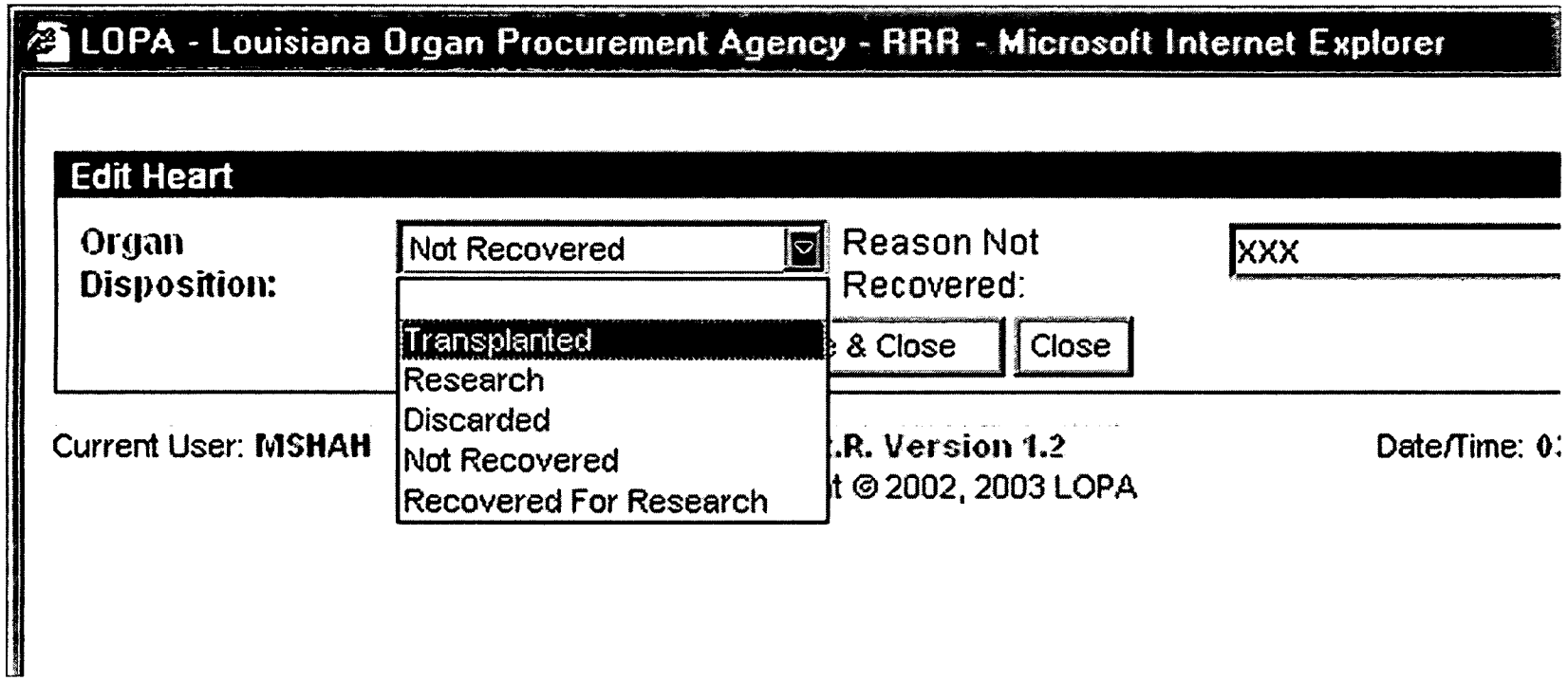
LOPA

Organ: Specific Organ Information

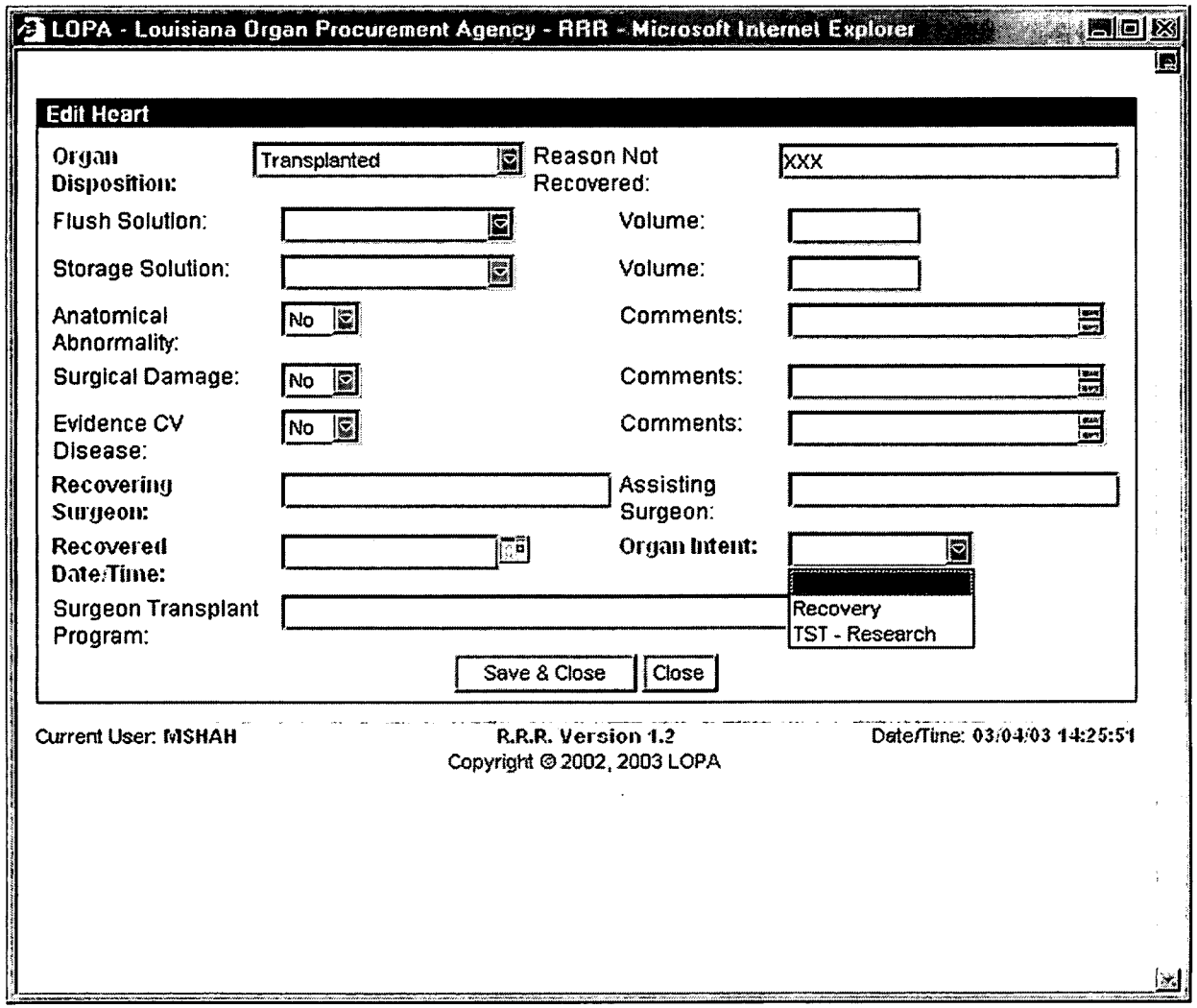


LOPA

Organ: Specific Organ- Heart



Organ: Specific Organ - Heart



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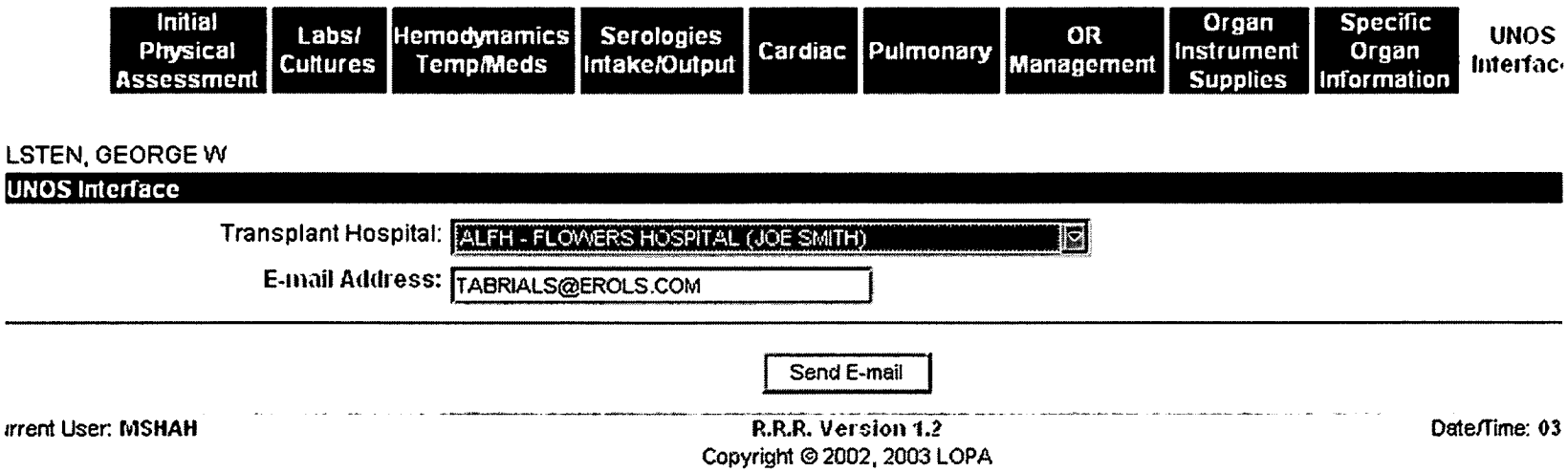
Organ: Placement



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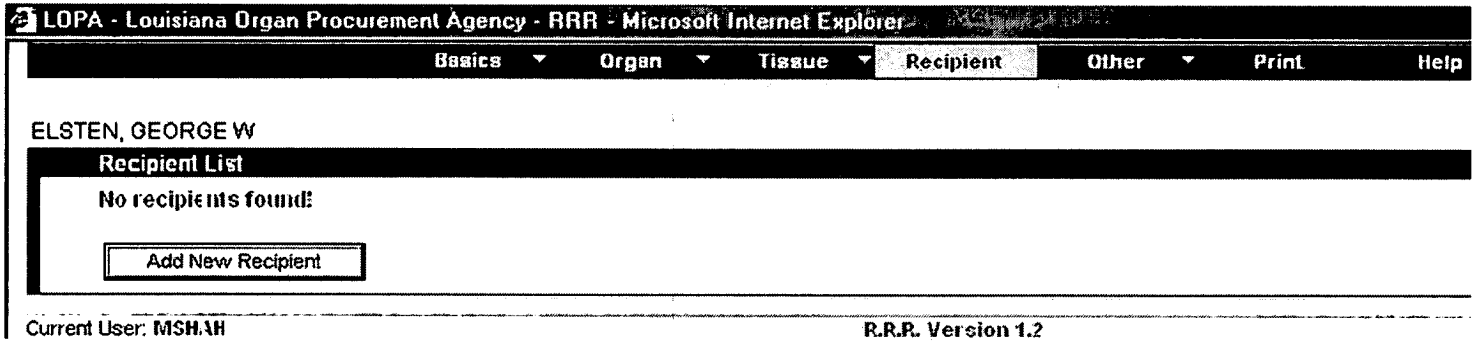
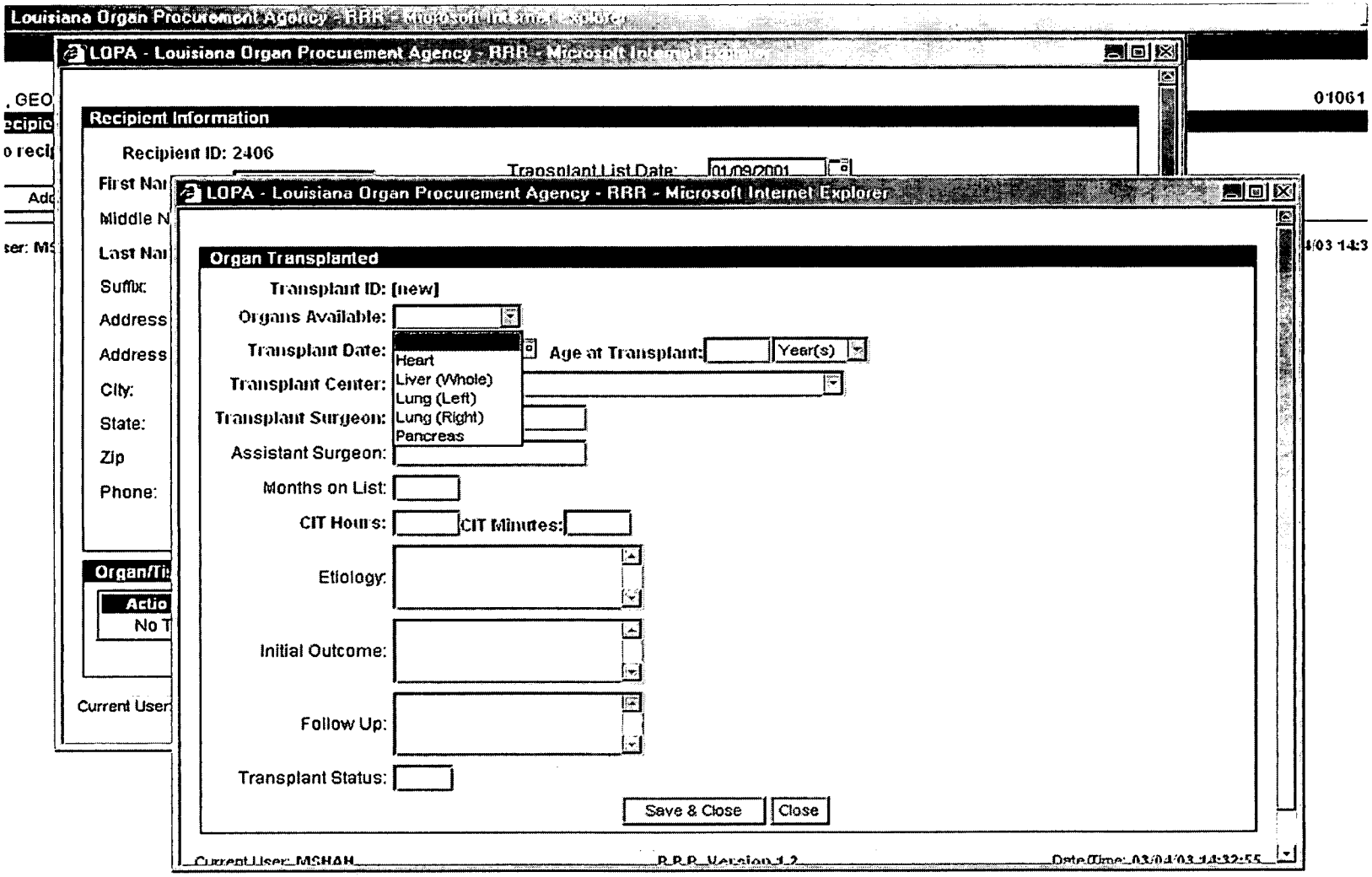
Recipient Information



Recipient: Entering transplant information



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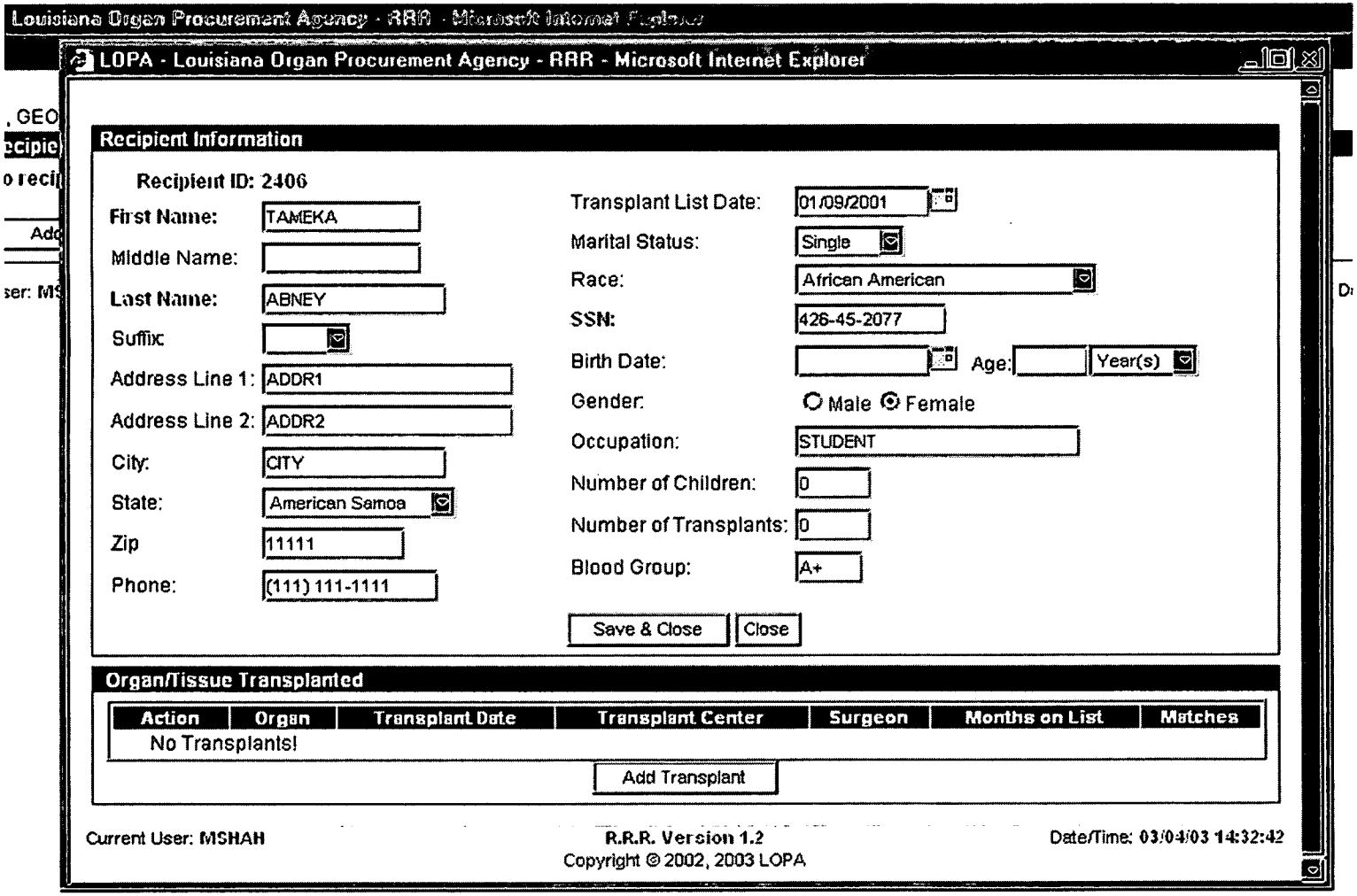
Recipient: Edit Recipient



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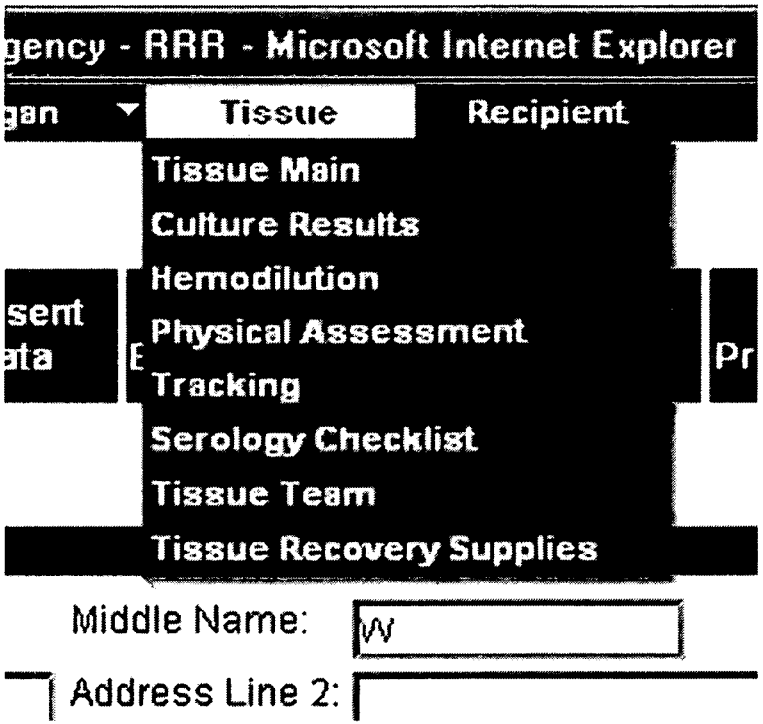
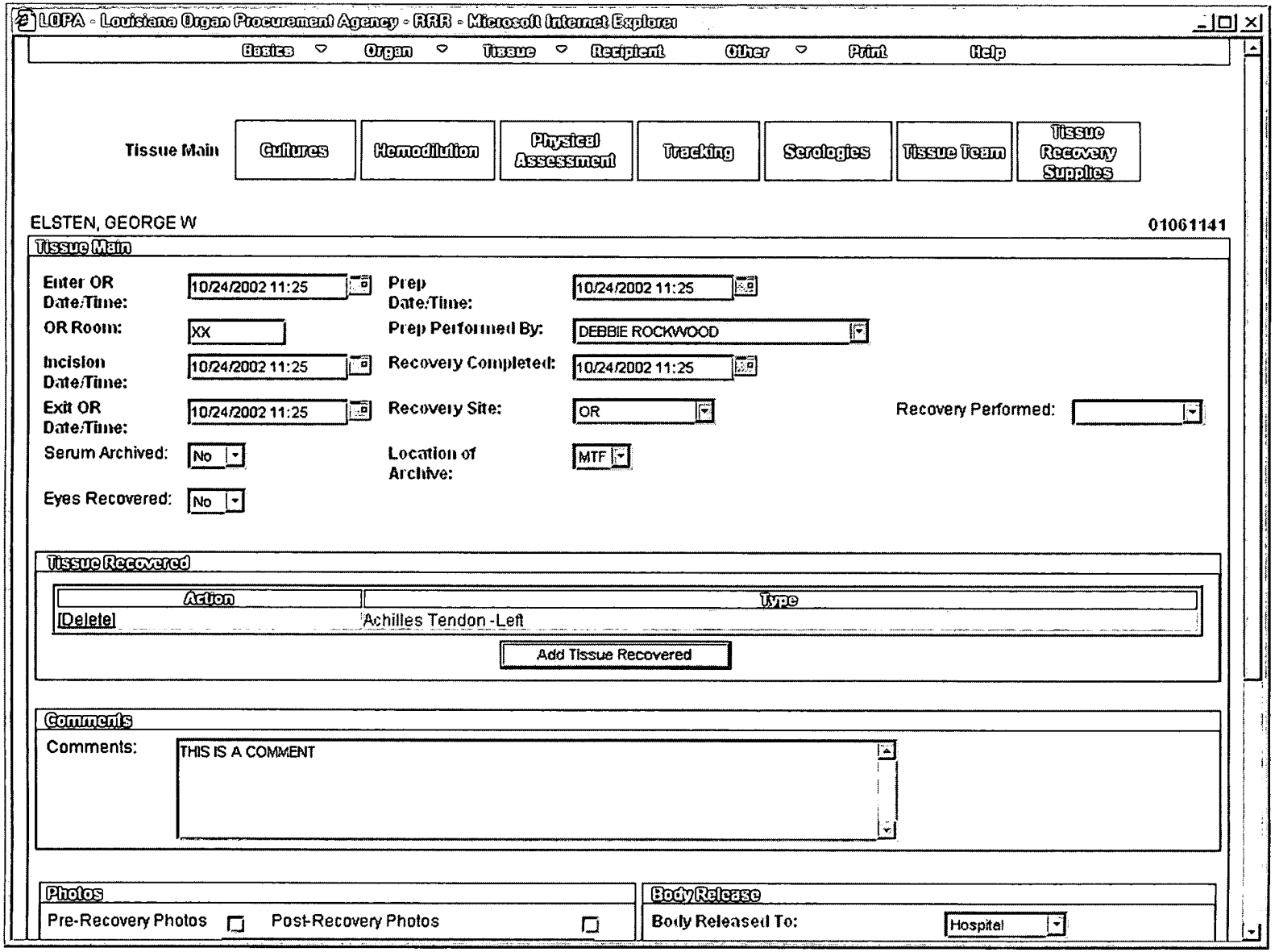
Tissue Menu



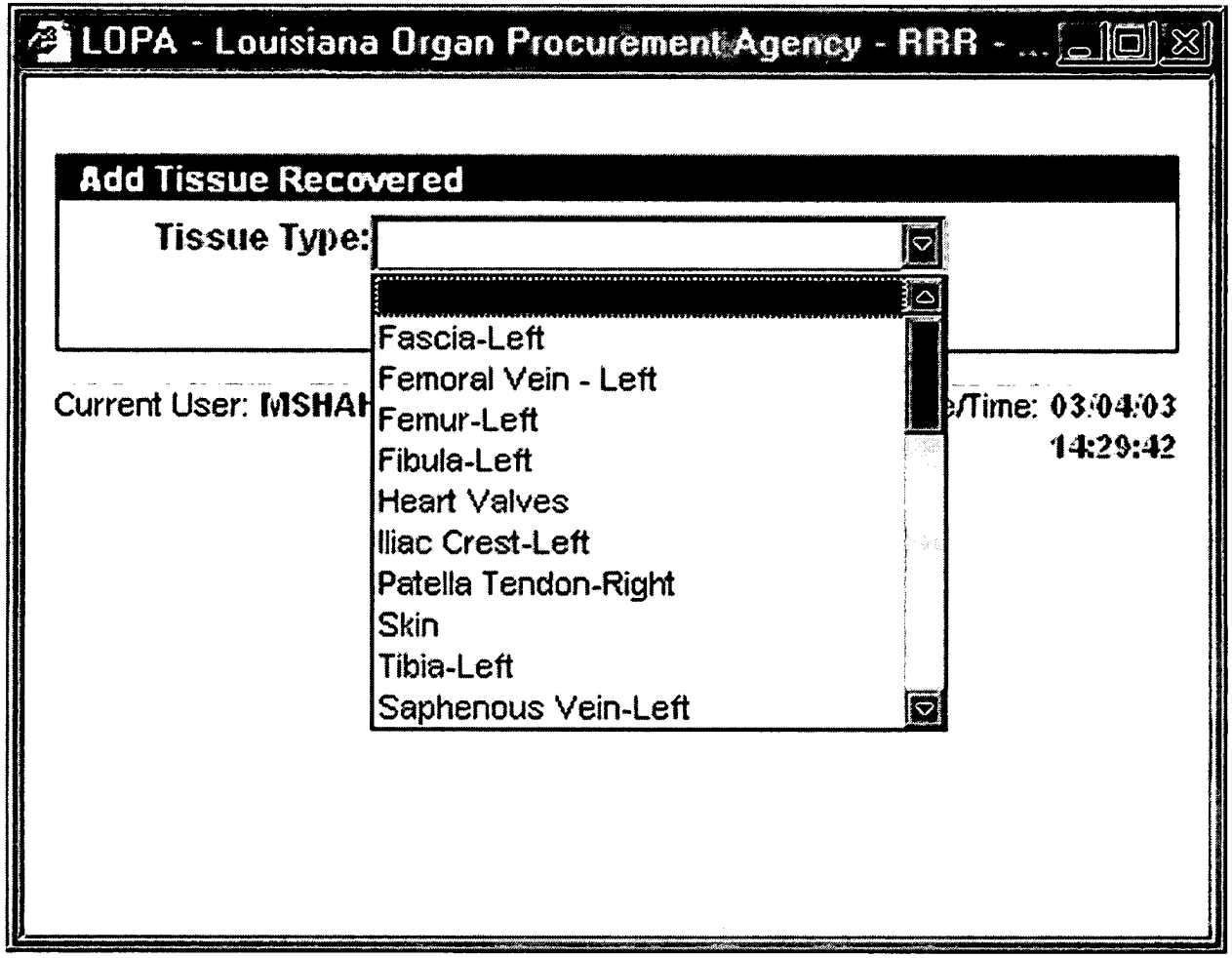
LOPA

Tissue: Tissue Main



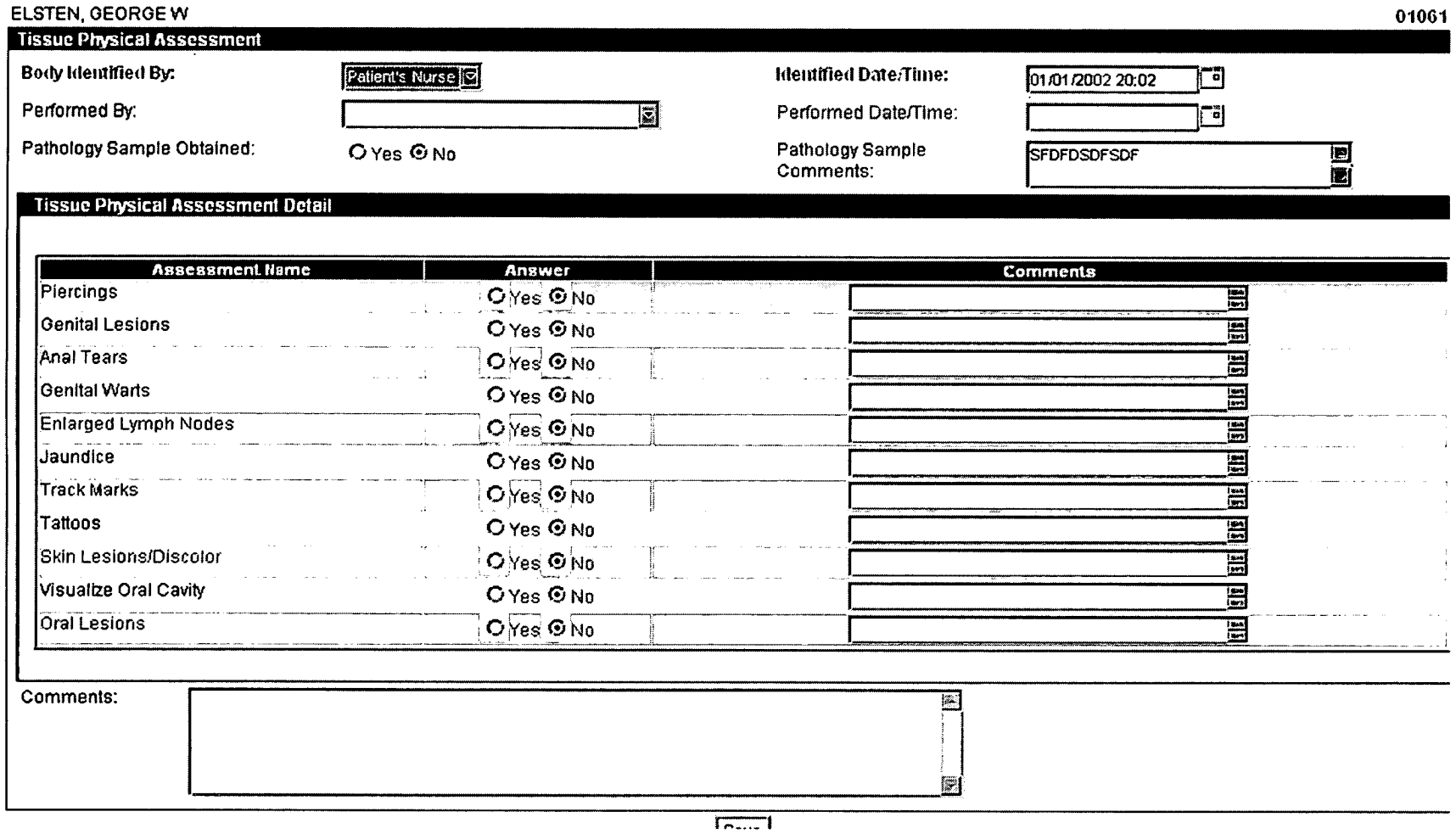
LOPA

Tissue: Add Tissue Recovered



LOPA

Tissue: Physical Assessment



ELSTEN, GEORGE W 01061

Tissue Physical Assessment

Body Identified By: Patient's Nurse
Identified Date/Time: 01/01/2002 20:02
Performed By:
Performed Date/Time:
Pathology Sample Obtained: ○ Yes ◉ No
Pathology Sample Comments: SFDFDSDFSDF

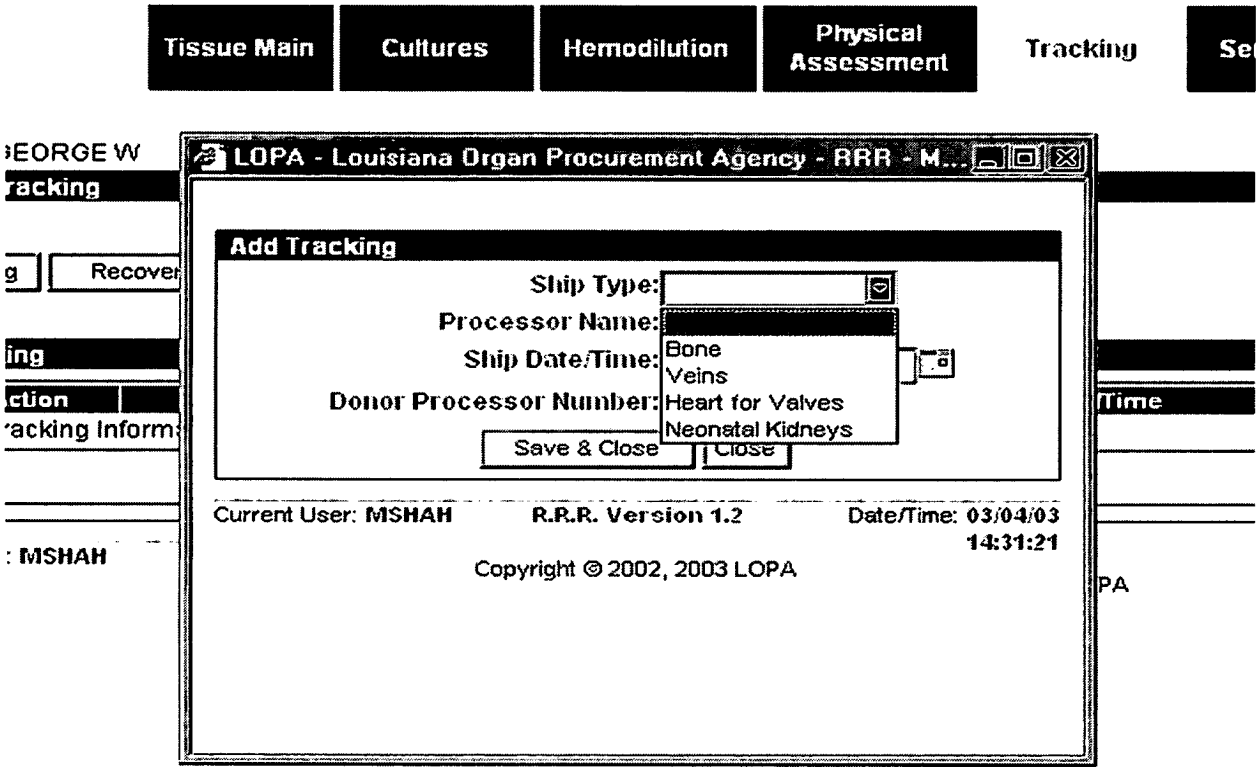
Tissue Physical Assessment Detail

Assessment Name	Answer	Comments
Piercings	○ Yes ◉ No	
Genital Lesions	○ Yes ◉ No	
Anal Tears	○ Yes ◉ No	
Genital Warts	○ Yes ◉ No	
Enlarged Lymph Nodes	○ Yes ◉ No	
Jaundice	○ Yes ◉ No	
Track Marks	○ Yes ◉ No	
Tattoos	○ Yes ◉ No	
Skin Lesions/Discolor	○ Yes ◉ No	
Visualize Oral Cavity	○ Yes ◉ No	
Oral Lesions	○ Yes ◉ No	

Comments:

LOPA

Tissue: Tracking



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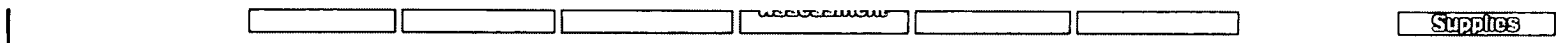
Tissue: Tissue Team



ELSTEN, GEORGE W 0106114

Tissue Team

Role	Team Member
Tissue Role 2	First Name: Last Name:
TISSUE TEAM XXXX	First Name: Last Name:
Tissue Role 1	First Name: Last Name:

Save

Tissue Reconstruction

Role	Team Member
Tissue Role 4	Name:
Tissue Role 3	First Name: Last Name:
RECONXXXXX	First Name: Last Name:

Save

Tissue Post Recovery

Role	Team Member
Tissue Role 6	Name:
POSTRECXXX	First Name: Last Name:

Save

Current User: MSHAH

R.R.R. Version 1.2

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Date/Time: 03/04/03 14:31:4

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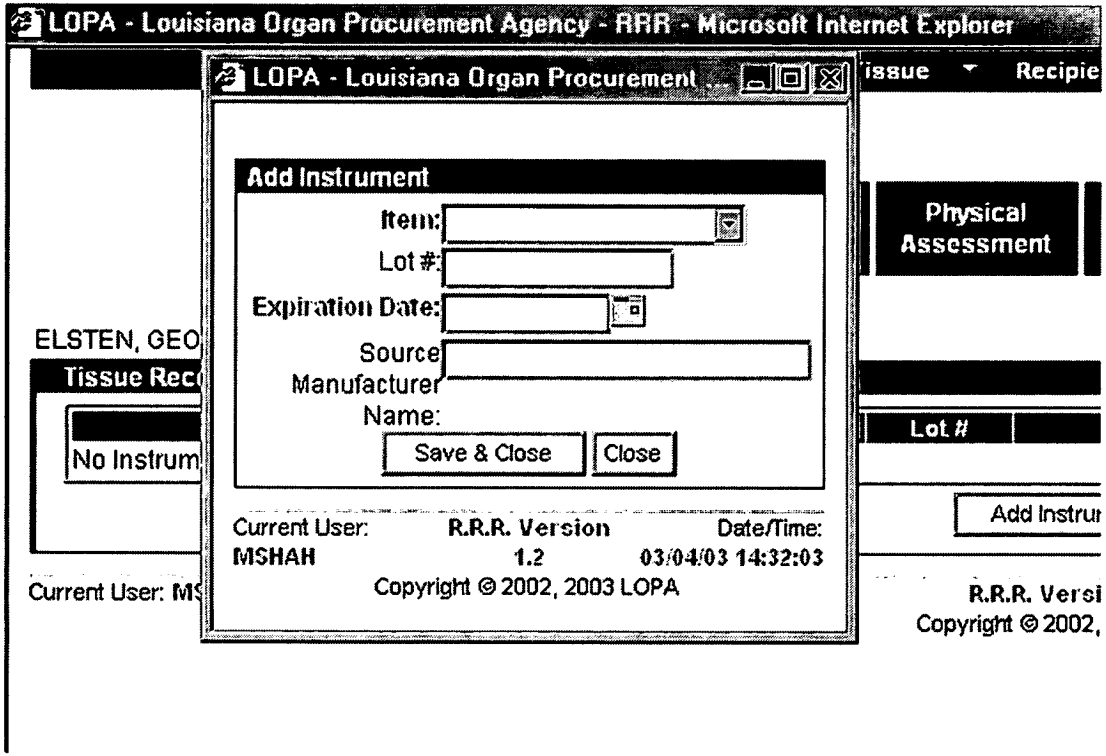
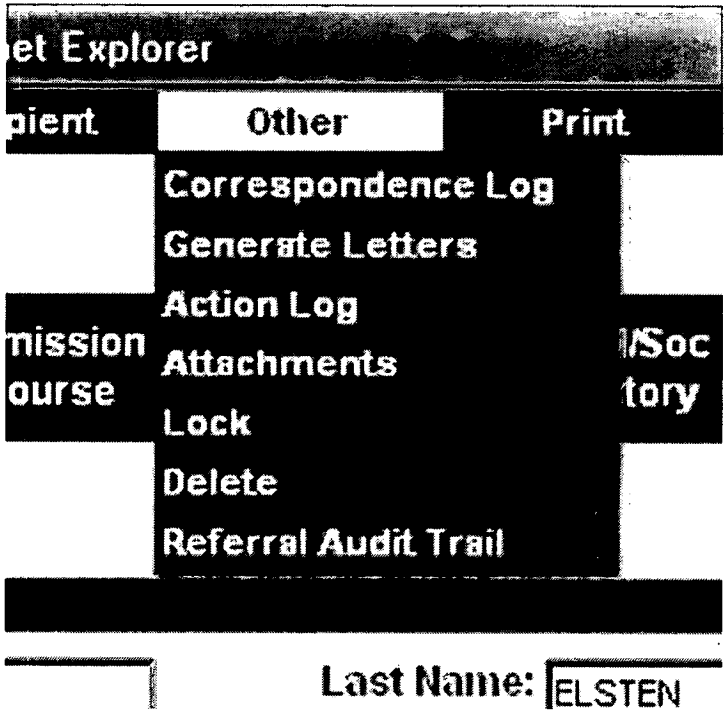
Tissue: Tissue Recovery Supplies



Referral Tools



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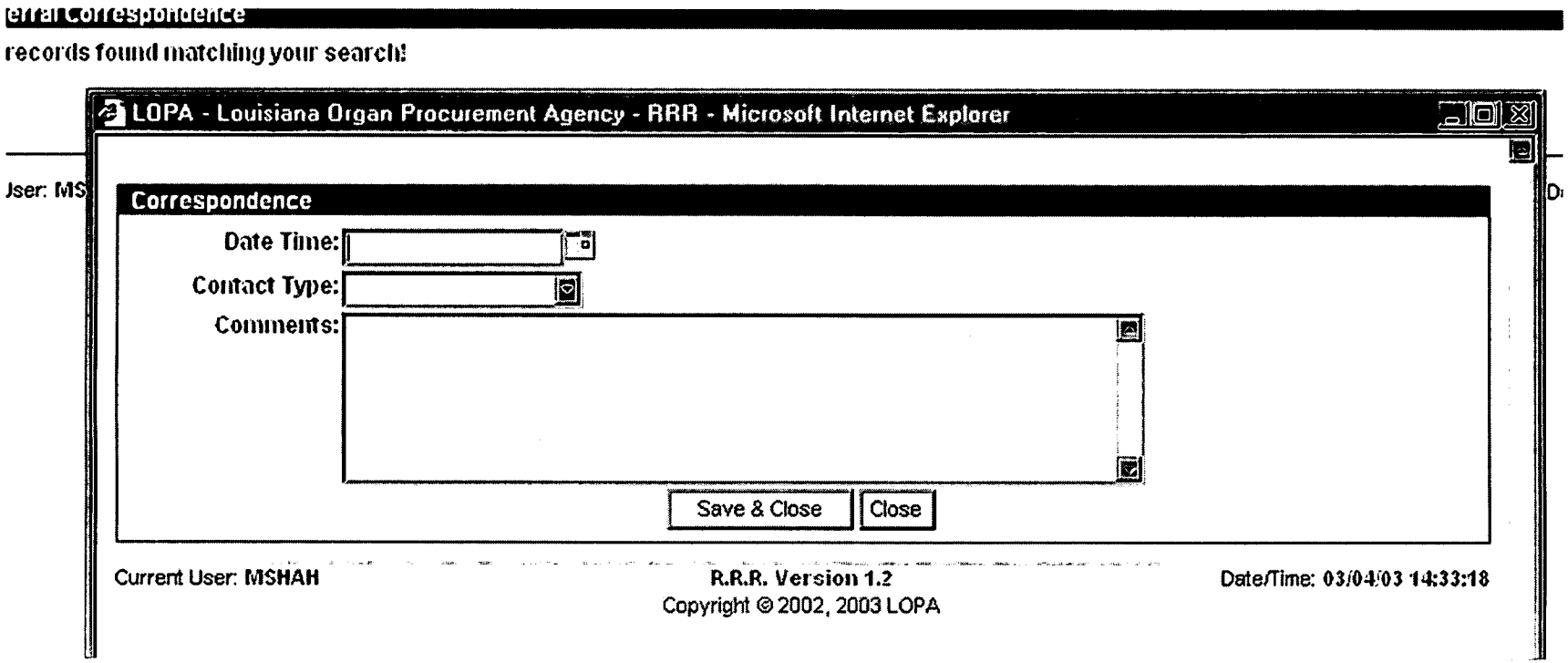
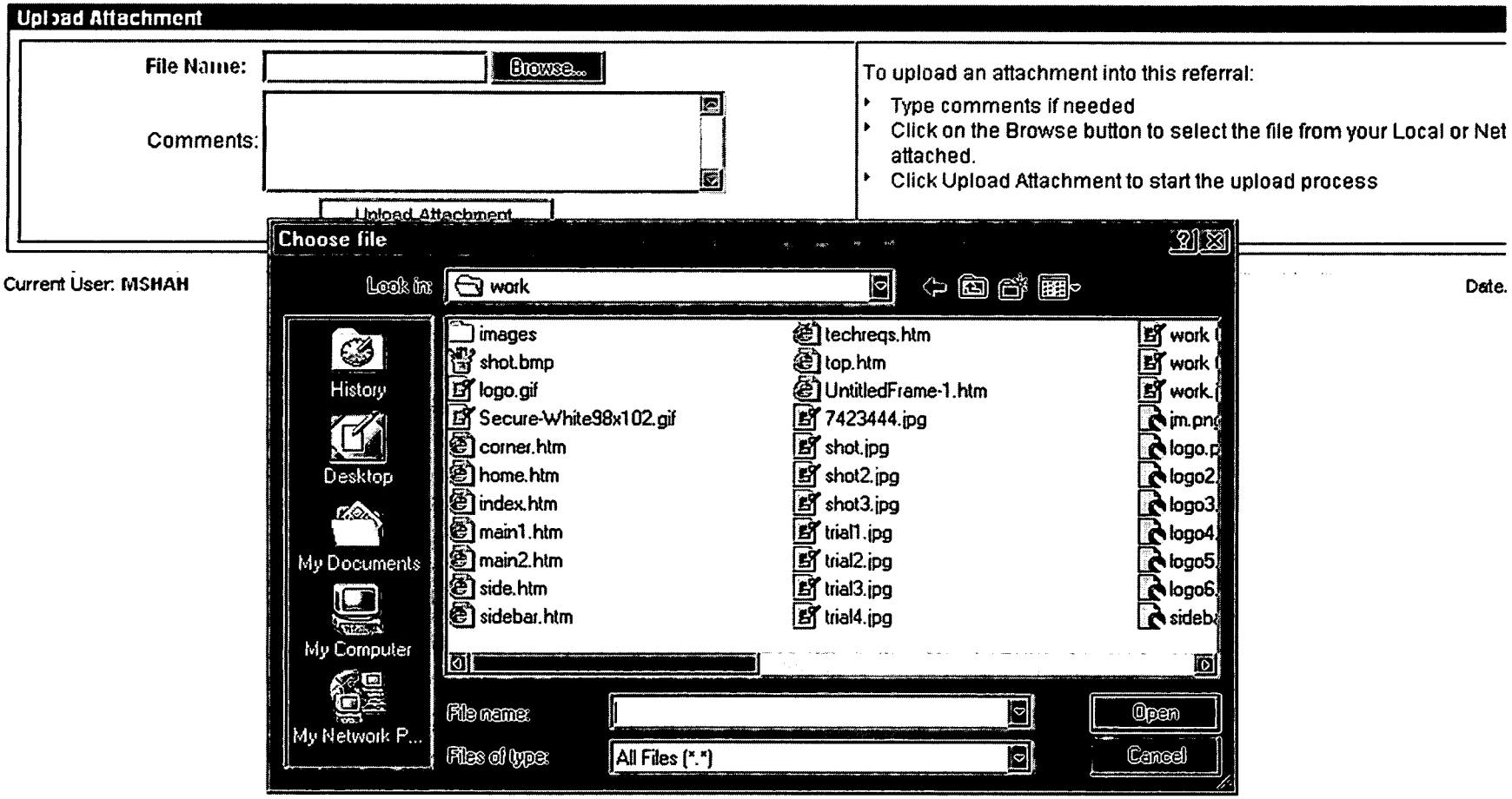
Referral Tools: Correspondence



Referral Tools: Add Attachment



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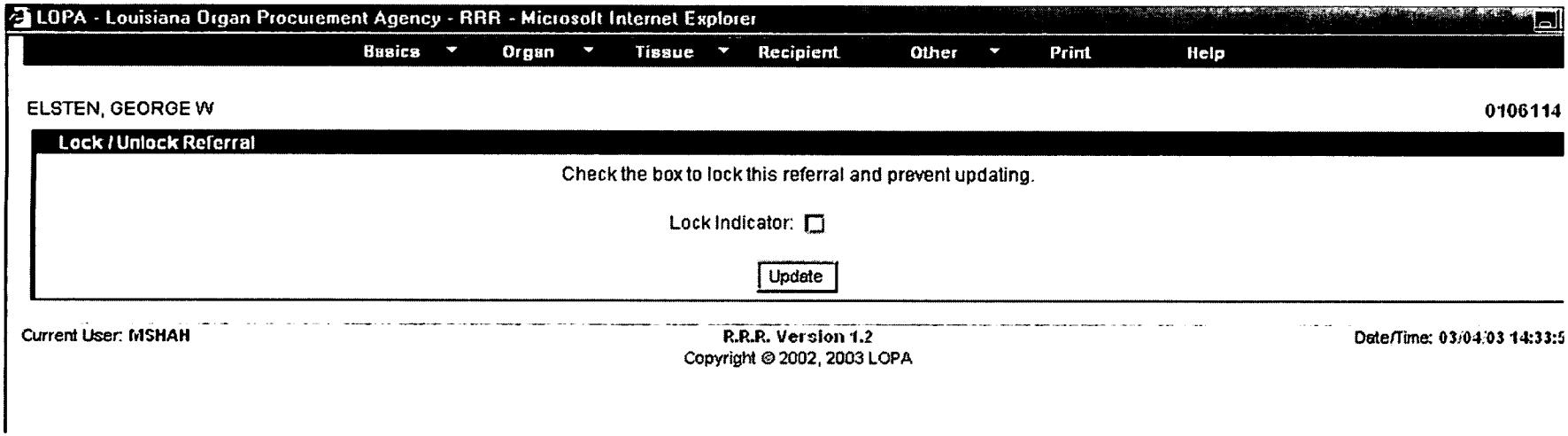
Quality Assurance: Locking Records



Quality Assurance: Audit Trail

ELSTEN, GEORGE W

Audit Log

Action	Audit Date/Time	IP Address	User Name	Command
[Details(XML)]	10/22/2002 15:28:10 (Tue)	208.224.173.2	LANCE WEITZEL	refbasic.viewMain
[Details(XML)]	10/22/2002 15:28:20 (Tue)	208.224.173.2	LANCE WEITZEL	refmain.viewAudits
[Details(XML)]	10/23/2002 15:06:52 (Wed)	208.224.173.2	KEVIN BARKER	refbasic.viewMain
[Details(XML)]	10/23/2002 15:49:34 (Wed)	208.224.173.2	KEVIN BARKER	refbasic.viewMain
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[Details(XML)]	10/23/2002 15:51:15 (Wed)	208.224.173.2	KEVIN BARKER	refbasic.updTracking-viewTracking
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[Details(XML)]	10/24/2002 10:28:23 (Thu)	208.224.173.2	KEVIN BARKER	reftissue.viewSerology
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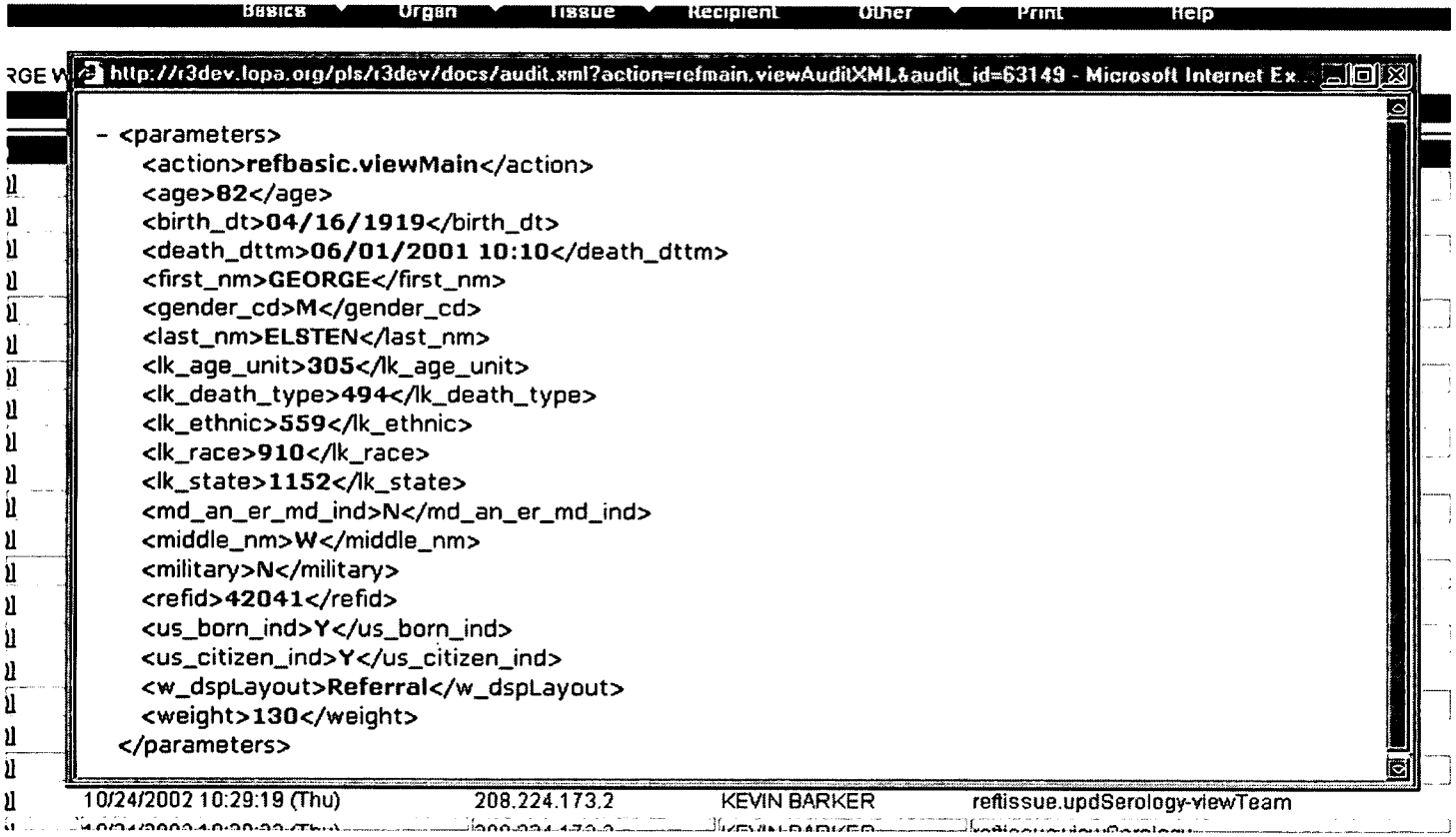
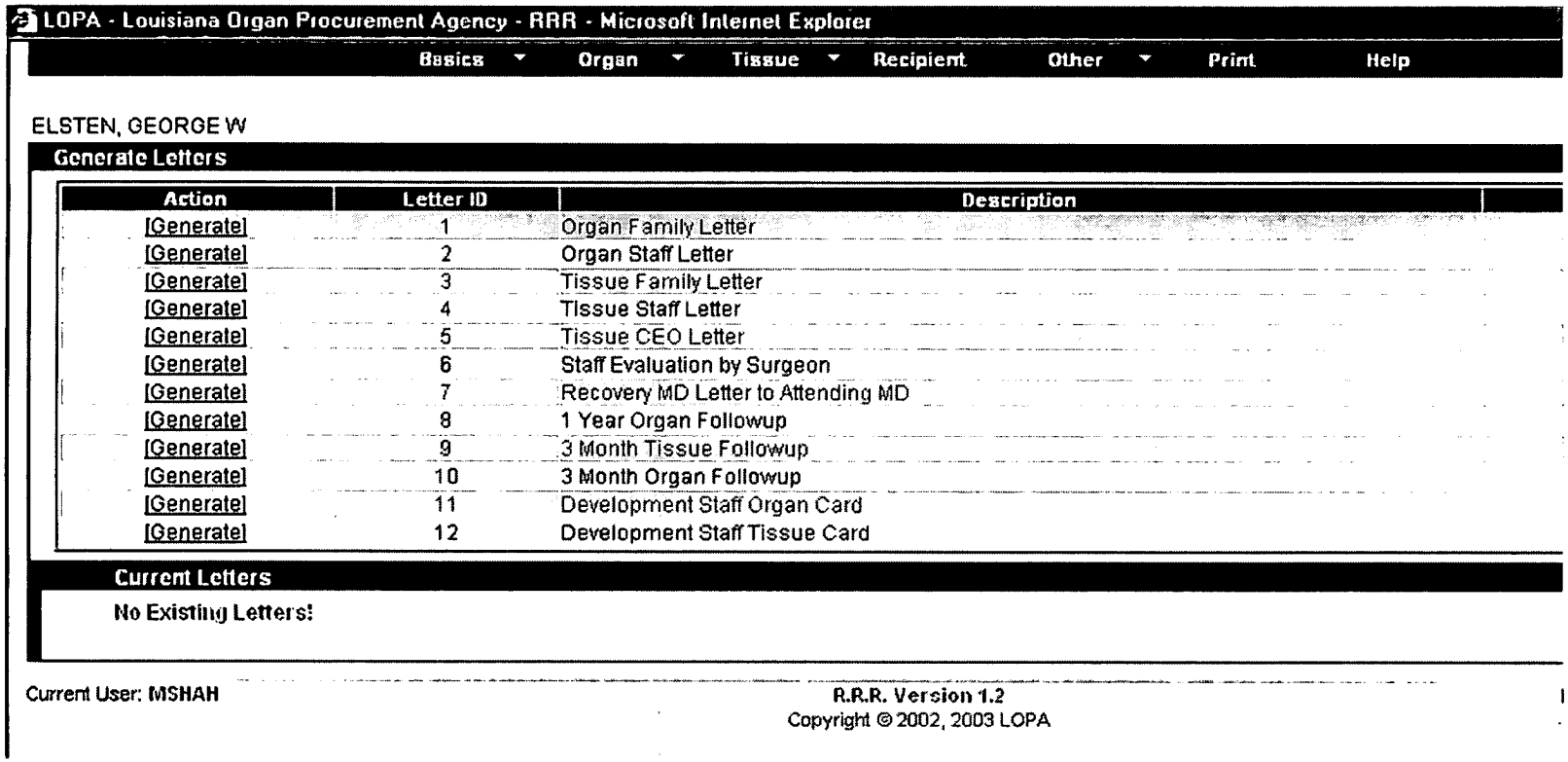
Quality Assurance: Audit Trail



Referral Tools: Generate Letter



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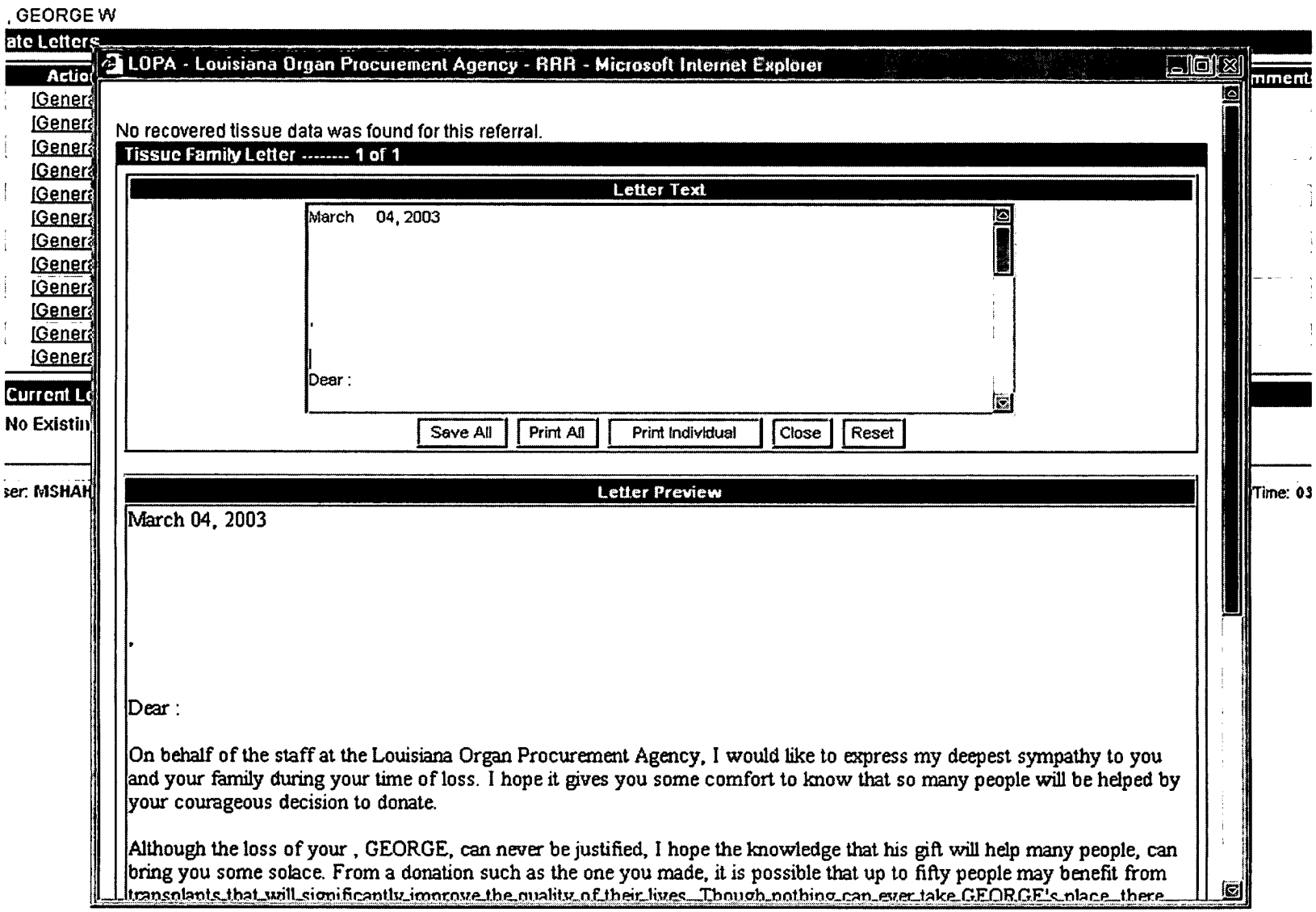
Other: Generate Letter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ate Letters
Actio
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LOPA - Louisiana Organ Procurement Agency - RRR - Microsoft Internet Explorer
No recovered tissue data was found for this referral.
Tissue Family Letter -------- 1 of 1
Letter Text
March 04, 2003
Dear :
Save All
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Print Individual
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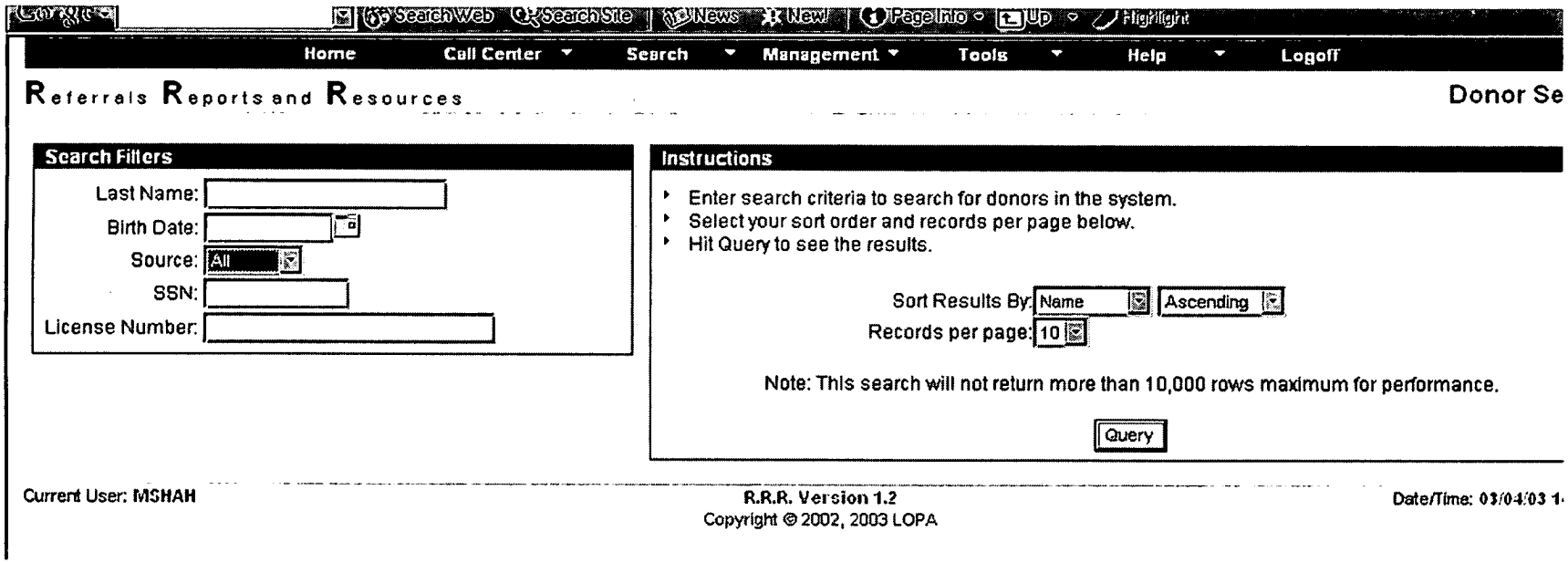
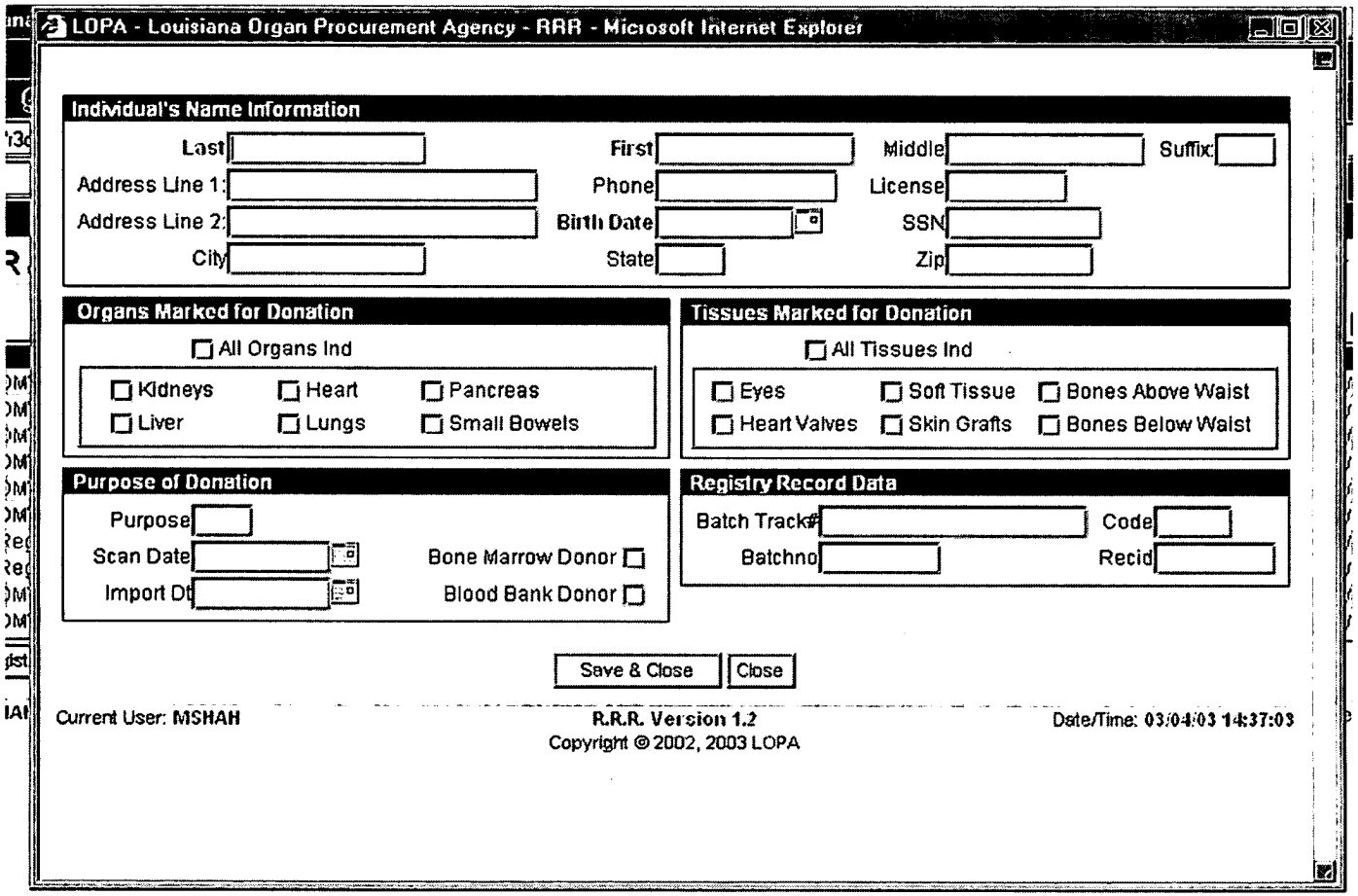
Letter Preview
March 04, 2003
Dear :
On behalf of the staff at the Louisiana Organ Procurement Agency, I would like to express my deepest sympathy to you and your family during your time of loss. I hope it gives you some comfort to know that so many people will be helped by your courageous decision to donate.
Although the loss of your , GEORGE, can never be justified, I hope the knowledge that his gift will help many people, can bring you some solace. From a donation such as the one you made, it is possible that up to fifty people may benefit from transplants that will significantly improve the quality of their lives. Though nothing can ever take GEORGE's place, there

Registry Search



LOPA

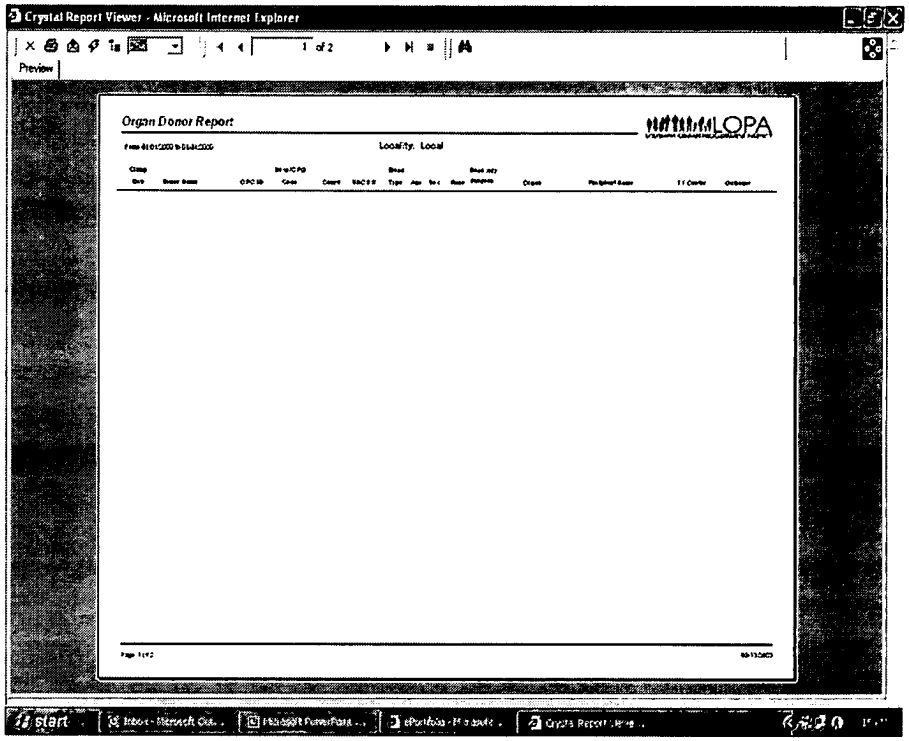
Add Registry Records



LOPA

Basic Reports

- Monthly Referral Report
- Organ Donor Report
- Tissue Donor Report
- Call Center Report
- Death Record Review Report



Clinical Forms

- Organ Donor Form
  - Based off the AOPO Organ Donor Form
  - Recipient Information Form
- Tissue Donor Form

For More Information

- www.johnstonmclamb.com/r3
- Email: R3@johnstonmclamb.com
- Materials available:
  - Demo site
  - Hardware specifications

Questions?

Thank You!

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